



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

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No. 7]

नई दिल्ली, शनिवार, फरवरी 16, 1991 (माघ 27, 1912)
NEW DELHI, SATURDAY, FEBRUARY 16, 1991 (MAGHA 27, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 16th February, 1991

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,
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Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,
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Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्य तथा अमिकल्प

कलकत्ता, दिनांक 16 फरवरी 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोही इस्टेट,
तीसरा तल, लोखर परेल (पश्चिम),
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा दिव एवं बावरा और नगर डवेली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
इकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करेल बाग,
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शाखा,
61, वालाजाह रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिर्काय तथा एमिनिदिवि द्वीप।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
मवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अभिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : —शुल्कों की अवयवी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को मुग्तान योग्य अनादेश अथवा हाक आदेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को मुग्तान योग्य बैंक द्राफ्ट अथवा चेक द्वारा की जा सकती है।

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under section 135, of the Patents Act, 1970.

9th January, 1991

31/Cal/91. N. V. Phillips' Gloeilampenfabrieken. Storage device for reversibly storing digital data on a multitrack storage medium, a decoding device, an information reproducing apparatus for use with such storage medium, and a unitary storage medium for use with such storage device, decoding device and/or information reproducing device.

32/Cal/91. General Electric Company. Method and apparatus for cooling air flow at gas turbine bucket trailing edge tip.

10th January, 1991

33/Cal/91. Hand Oetiker Ag. Maschinen-und Apparatefabrik. Method and machine for automatically mounting and tightening clamps.

11th January, 1991

34/Cal/91. Fritz Stahlecker and Hans Stahlecker. A spinning or twisting spindle.

35/Cal/91. Teset Ag. The grate and the burning matter vessel constructed with the same.

36/Cal/91. Phillips Petroleum Co. Expression of hepatitis B pre-a protein in methylotrophic yeasts.
[Divisional dated 10th April, 1989.]

14th January, 1991

37/Cal/91. Jalal Khan. Bicycle.

38/Cal/91. Akhilesh Kumar. Connector (Receiver & Discharger) for creating automatic & collision less energy convection and cyclic arrangement of motor moving with its own energy by means of that.

39/Cal/91. Trutzschler GmbH & Co. Kg. A device for the opening and cleaning of fibre material, cotton in particular.

40/Cal/91. Trutzschler Gmbh & Co. Kg. The device for the feeding of fibre material, present in flanked form eg cotton, chemical fibres and similar materials, to the processing machines.

41/Cal/91. General Electric Company. Integrated turbine generator.

15th January, 1991

42/Cal/91. E. I. Du Pont De Nemours and Company. Azeotropic compositions of perfluoro-1, 2-dimethylcyclobutane with 1, 1-dichloro-1-fluoroethane or dichlorotri-fluoroethane.

43/Cal/91. Candela Laser Corporation. Method and apparatus for fragmentation of hard substances.

44/Cal/91. Hoechst Aktiengesellschaft. Water-soluble fiber-reactive dyes and preparation and use thereof.

45/Cal/91. De La Rue Giori S.A. Apparatus for invalidating security prints printed on print carriers.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-5

19th November, 1990

1134/Del/90. Ashesh Chandra Mishra, "The process to control fertility or sterility rate of living beings".

1135/Del/90. The Procter & Gamble Co., "Hard surface cleaning compositions". (Convention date 23rd November, 1989). (U.K.).

1136/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of $\text{LiSo}_4\text{—Ag}_2\text{—So}_4$ solid electrolyte suitable for use in solid state batteries".

1137/Del/90. Council of Scientific & Industrial Research, "An improved thermal battery".

1138/Del/90. GEC Alsthom S.A., "A high tension circuit breakers having varistors".

1139/Del/90. Morton Thiokol Ltd., "A method of manufacturing a reinforced polymeric sheeting". [Divisional date 17th December, 1987].

20th November, 1990

1140/Del/90. Poclaim Hydraulics, "Assembly composed of a pressurized fluid mechanism and of a disc brake coupled thereto".

1141/Del/90. John E. Williams, "Dispenser with piston assembly for expelling product".

1142/Del/90. Imax Systems Corporation, "Method and apparatus for presenting 3-D motion pictures". (Convention date 22nd November, 89) (Canada).

21st November, 1990

1143/Del/90. Calvest Associates Inc., "Eccentric drive mechanism".

1144/Del/90. Fedders Lloyd Corporation Ltd., "An improved radiator".

1145/Del/90. Suraj Prakash Sharma, "Improved cycle with physical escalations".

1146/Del/90. HGF Laminates, "Inflation valve for balloons and the like".

1147/Del/90. Dr. Beck & Co. Aktiengesellschaft, "Process for the preparation of flexible base materials".

1148/Del/90. Gaz De France, "Connection component of the type with improved electrical resistor for joining together plastic elements by thermal welding".

1149/Del/90. Gaz De France, "Process and connection component using an electrical resistor for the welding of plastic elements".

1150/Del/90. Exxon Chemical Patents, Inc., "Para-alkylstyrene/isooolefin copolymers and graft copolymers thereof and functionalized copolymers thereof".

22nd November, 1990

1151/Del/90. Digital Equipment Corporation, "Subroutine return prediction mechanism".

1152/Del/90. International Business Machines Corporation, "Structures and processes for fabricating field emission cathodes".

1153/Del/90. International Business Machines Corporation, "Process and structure of an integrated vacuum microelectronic device".

23rd November, 1990

1154/Del/90. Jitender Gupta, "Water injector".

1155/Del/90. Jitender Gupta, "Oil carburetor".

1156/Del/90. Jitender Gupta, "Fuelgas and air carburetor".

1157/Del/90. The Procter & Gamble Co., "Pharmaceutical compositions of tebufelone".

1158/Del/90. Bharat Starch & Chemicals Ltd., "A process".

1159/Del/90. Bharat Starch & Chemicals Ltd., "A product".

1160/Del/90. Motorola Inc., "Wireless in-building tele-communications system for voice and data communications".

1161/Del/90. E. R. Squibb & Sons, Inc., "New nonionic radiographic contrast agents".

1162/Del/90. Rohm & Haas Co., "Method of preparing high glass transition temperature novolak resins useful in high resolution photoresist compositions".

1163/Del/90. Tremco Incorporated, "A method for the manufacture of a adhesive articles". [Divisional date 23rd October, 1987].

26th November, 1990

1164/Del/90. Primages Inc. "Dot matrix printer". [Divisional date 28th September, 1987].

1165/Del/90. Energy Conversion Devices, Inc., "A sealed rechargeable hydrogen storage electrochemical cell". [Divisional date 24th November, 1987].

1166/Del/90. Chemetics International Co. Ltd., "Metal electrodes for electrochemical processes".

1167/Del/90. Kali-Chemie AG., "Process for producing an inorganic barium-containing solids composition".

1168/Del/90. Albright & Wilson Ltd., "Functional fluids". (Convention date 28th November, 89) (U.K.).

27th November, 1990

1169/Del/90. Council of Scientific & Industrial Research, "A process for the inactivation of oil palm fruit lipolytic enzyme by microwave treatment".

1170/Del/90. Council of Scientific & Industrial Research, "A novel dry process for palm oil extraction".

1171/Del/90. Council of Scientific & Industrial Research, "An automatic guarded hot plate equipment for the measurement of thermal conductivity of building and insulating materials".

1172/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of 3, 5-xyleneol".

1173/Del/90. Council of Scientific & Industrial Research, "An improved process for the production of high purity ferric oxide from iron powder".

1174/Del/90. Council of Scientific & Industrial Research, "An improved fluidized bed combustor for the combustion of coals".

1175/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of micro-crystalline waxes".

1176/Del/90. Council of Scientific & Industrial Research, "An improved process for the production of polymeric insulator conductor composites of poly pyrrole by chemical vapour phase deposition".

1177/Del/90. Council of Scientific & Industrial Research, "An improved process for the extrusion of magnesium/magnesium alloy billets".

1178/Del/90. Council of Scientific & Industrial Research, "A process for the isolation of anticancer compound (crotopoxide) from the berries of piper attenuatum".

1179/Del/90. Council of Scientific & Industrial Research, "A process for the preparation of an improved lipromoted Mgo catalyst useful for oxidative coupling of methane to ethane and ethylene".

1180/Del/90. Council of Scientific & Industrial Research, "A process for the preparation of rare earth metal promoted Mgo catalysts useful for oxidative conversion of methane to higher hydrocarbons".

1181/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of chromium copper alloy for use in electrical appliances".

1182/Del/90. Council of Scientific & Industrial Research, "An improved process for the extraction of nickel, copper & cobalt from manganese sea nodules".

1183/Del/90. Council of Scientific & Industrial Research, "An improved process of heat treatment for magnesium alloys".

1184/Del/90. Balkin Industries Ltd., "Cleaning composition".

1185/Del/90. Stein-Heurtey, "Handling installation for iron and steel products".

28th November, 1990

1186/Del/90. Bharat Starch & Chemicals Ltd., "A sizing agent".

1187/Del/90. Rajiv Sarin, "A sealing device".

1188/Del/90. Emhart Industries, Inc., "Plunger mechanism". (Convention date 23rd January, 1990) (U.K.).

1189/Del/90. Rohm & Haas Co., "Biodegradable, water-soluble polycarboxylic acid copolymers, compositions containing such copolymers and methods of use of such copolymers".

1190/Del/90. Rohm & Haas Co., "Biodegradable, water-soluble graft copolymers, compositions containing such copolymers and methods of use of such copolymers".

29th November, 1990

1191/Del/90. The Procter & Gamble Co., "Thiol heterocyclic deodorant composition and method of deodorization".

1192/Del/90. The Procter & Gamble Co., "Disulfide deodorant composition and method of deodorization".

1193/Del/90. International Business Machines Corporation, "A data processing system". [Divisional date 20th January, 88]. [Convention date 27th October, 87]. (U.K.).

1194/Del/90. International Business Machines Corporation, "A device card". (Convention date 27th October, 87) (U.K.) & [Divisional date 20th January, 88].

1195/Del/90. Automatic Switch Co., "Four-way slide valve".

1196/Del/90. Aquafan (Proprietary) Ltd., "Method and apparatus for treating a gas or liquid".

1197/Del/90. Mobil Solar Energy Corporation, "Dotted contact solar cell and method of making same"

30th November, 1990

1198/Del/90. S. A. Irani, "A two stroke petrol engine".

1199/Del/90. Establishments Vape, "Device for fixing a railroad rail on a tie".

1200/Del/90. Council of Scientific & Industrial Research, "Improvements in or relating to the synthesis of various forms of polyaniline".

1201/Del/90. Council of Scientific & Industrial Research, "A process for the deposition of conducting polyaniline on insulating surfaces".

1202/Del/90. Council of Scientific & Industrial Research, "A process for the preparation of polymeric composites of polyaniline for electrostatic charge dissipation, conducting filler material and as conductive adhesive".

1203/Del/90. Council of Scientific & Industrial Research, "A process for the production of Fe-Mn-Al alloys for relay core applications".

1204/Del/90. Council of Scientific & Industrial Research, "A process for the production of Fe-Mn-Al alloys for soft magnetic applications".

1205/Del/90. Council of Scientific & Industrial Research, "A process for the production of high strength high temperature high alumina (70—90%) hydraulic white calcium aluminate cement".

1206/Del/90. Council of Scientific & Industrial Research, "Improvement in or relating to the electrolytic preparation of 5-amino salicylic acid using Ti/TiO₂ electrode prepared by thermal method".

1207/Del/90. Council of Scientific & Industrial Research, "An improved process for the production of immobilized penicillin G acylase using cross-linked spherical macroporous hydroxyethyl methacrylate terpolymers useful for the preparation of 6-amino penicillanic acid".

1208/Del/90. Council of Scientific & Industrial Research, "A process for the preparation of crosslinked spherical hydroxyethyl methacrylate terpolymer beads of controlled pore size distribution for enzyme immobilization".

1209/Del/90. Council of Scientific & Industrial Research, "A composition (medium) useful for shoot sprouting and multiplication for mature bamboo species".

1210/Del/90. Council of Scientific & Industrial Research, "A process for the preparation of crystalline metallo-titanium-silicate-2 catalyst composite material".

1211/Del/90. Sultan Singh Jain, "A double flow tap".

1212/Del/90. Sultan Singh Jain, "A power director"

1213/Del/90. Exxon Chemical Patents, Inc., "Thermoplastic resin compositions". (Convention date 1st December, 1989) (U.K.).

1214/Del/90. Rambus, Inc., "Integrated circuit I/O using a high performance bus interface".

30th November, 1990

1215/Del/90. Dyno Industrier A/S, "A process and a machine for cartridge particularly sticky explosive materials having poor form stability". [Divisional date 1st October, 1987].

1216/Del/90. The Lubrizol Corporation, "Lubricating oil compositions for MeOH-fueled diesel engines".

1217/Del/90. Juzhnoe Proizvodstvennoe Obiedinenie Po Morakim Geologorazvedochnym Rabotam "Juzhmoreologia" & other, "Submersible towed vehicle".

ALTERATION OF DATE U/S 16

168172 : Ante-dated to 14th January, 1986.
(94/Cal/1989)

168199 : Ante-dated to 23rd April, 1985.
(60/Del/1988)

168200 : Ante-dated to 22nd August, 1985.
(463/Del/1988)

OPPOSITION PROCEEDINGS

An opposition has been entered by M/s. Eastern Mediket Private Limited to the grant of a Patent on application No. 166726 dated 2nd September, 1986 made by Sri Vivek Mall.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

The claim made by KEMTERTER INC. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 165942 in their name has been allowed.

The claim made by KEMTERTER INC. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 165941 in their name has been allowed.

The claim made by INTERNATIONAL CONTROL AUTOMATION FINANCE S.A. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167568 in their name has been allowed.

The claim made by INTERNATIONAL CONTROL AUTOMATION FINANCE S.A. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167694 in their name has been allowed.

The claim made by INTERNATIONAL CONTROL AUTOMATION FINANCE S.A. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167378 in their name has been allowed.

The claim made by OMEGA UNIVERSAL HOLDINGS LTD. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167659 in their name has been allowed.

The claim made by INTERNATIONAL CONTROL AUTOMATION FINANCE S.A. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167109 in their name has been allowed.

The claim made by BABCOCK & WILCOX TRACE POWER INC. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 165982 in their name has been allowed.

The claim made by INTERNATIONAL CONTROL AUTOMATION FINANCE S.A. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 167909 in their name has been allowed.

The claim made by KAMTERTER INC. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 165943 in their name has been allowed.

The claim made by KAMTERTER INC. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 165944 in their name has been allowed.

PRINTED SPECIFICATION CHALLAN

A limited number of printed copies of the under noted specifications are available for sale from the PATENT OFFICE, CALCUTTA and its three Branches at Bombay, Madras and Delhi at Ra. 2/- (Rupees Two Only) per copy.

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PATENT SEALED

162952 165909 165941 165942 165943 165944 166053 166111 166324
166366 166501 166502 166503 166504 166505 166506 166507 166508
166509 166521 166525 166542 166544 166621 166625 166626 166627
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166666 166668 166669 166670 166681 166683 166688 166689

CAL—18
DEL—13
MAS—12
BOM— 1

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendments proposed by BERGWERKSVER BAND GmbH, A GERMAN COMPANY of FRANZ-FISCHER-WEG 61, 4300 ESSEN, 13, W. GERMANY in respect of Patent application No. 158883 (657/D/83) as advertised in Part III, Section 2 of the Gazette of India dated 18-3-89 have been allowed.

The amendments proposed by HUGHES AIRCRAFT COMPANY of 7200 HUGHES TERRACE, P.O. BOX 45066, LOS ANGELES, CALIFORNIA in respect of Patent application No. 162952 (8/D/84) as advertised in Part III, Section 2 of the Gazette of India dated 25-3-1989 have been allowed.

Notice is hereby given that the Halcon SD Group Inc. has/have made an application on form-29 under section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 164704 (754/Del/85) for Process for preparing alkylene Oxides from alkylene Carbonates. The amendments are by way of Change of name to Process Research and Development Company.

The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in form-30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

Notice is hereby given that THE HALCON SD GROUP INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE has/have made an application on form-29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for patent No. 165859 (338/D/86) for AN IMPROVED CYCLIC PROCESS FOR THE PRODUCTION OF ETHYLENE OXIDE. The amendments are by way of change of name to Process Research and Development Company. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in form-30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005. If the Written Statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

RENEWAL FEES PAID

144768 145814 146622 148204 148205 148213 148371 148463 148540
 148667 148776 148777 148782 148916 149461 149751 149827 149997
 150074 150127 150352 150613 150648 150716 150880 151203 151284
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 159871 159909 159910 159921 160045 160047 160068 160225 160366
 160370 160575 160681 160703 160744 160883 160960 160982 160986
 161129 161175 161216 161218 161232 161266 161279 161280 161326
 161368 161403 161458 161503 161616 161708 161784 161804 161847
 161848 161849 161870 161900 161947 162093 162101 162121 162127
 162192 162250 162257 162258 162474 162489 162839 162921 163028
 163087 163153 163271 163275 163404 163530 163545 163651 163742
 163751 163774 163775 163799 163836 163837 163848 163903 163904
 163907 163992 164031 164108 164172 164181 164204 164259 164275
 164293 164417 164418 164485 164544 164564 164732 164803 164805
 164806 164808 164892 164919 164920 164977 165050 165126 165205
 165212 165213 165216 165217 165250 165433 165445 165483 165488
 165489 165510 165528 165530 165533 165550 165598 165614 165924
 166390 166461 166463 166464 166465

COMPLETE SPECIFICATION ACCEPTED

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बन्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कमी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संवर्ग में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाए तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की दृकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी आवश्यकता पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकलन किया जा सकता है।

Ind. Cl. : 150G.

168161

Int. Cl. : F16L 13/10 13/14.

A COMPOSITE MATERIAL TUBE AND A METHOD OF MANUFACTURE THEREOF.

Applicant : SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF FRANCE, OF 37 BOULEVARD DE MONTMORENCY, 75016 PARIS, FRANCE.

Inventor : JEAN-FRANCOIS FUCHS.

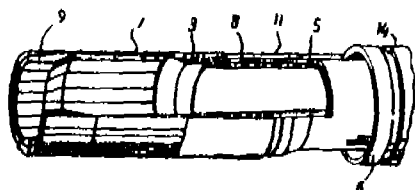
Application for Patent No. 927/Del/86 filed on 21st October, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-110005.

13 Claims

A method of manufacturing a composite material tube having a current or main part and two end pieces selected from a male or female end piece, wherein the process comprises the steps of:

- (a) winding strips of rubber on a mandrel to form a rubber skin (1) to be vulcanised subsequently, simultaneously with polymerization;
- (b) circumferentially winding fibers of the kind such as herein described on the rubber skin at each of the two ends to form composite material inserts (4) and (2) of the male and female end pieces respectively;
- (c) longitudinally winding said fibers continuously over the whole length of the tube and at the ends above the said inserts to form fiber layers (5);
- (d) circumferentially winding said fibers over said current or main part of the tube to form winding (5);
- (e) introducing an external sleeve (6) on said current or main part of tube, said sleeve (6) being prepared separately by circumferentially winding said fibers on a mandrel;
- (f) subjecting the female end piece to a finishing step, comprising binding above its insert (2) a new circumferential winding of strips (7) said strips (7) being formed separately by winding said fibers on a mandrel;
- (g) Subjecting the male end piece to a finishing steps, comprising forming a stop heel (10) proximate to its insert and having an extra thick portion (15) formed by circumferential winding of said fibers;
- (h) polymerizing the whole tube; and
- (i) complementary machining of a groove on the end pieces for locating the seals (12) on male end piece and (11) on female end piece respectively.



Compl. Specn. 12 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 107L
Int. Cl.⁴ : F02M 69/10.

168162

DEVICE FOR LOW-PRESSURE FUEL INJECTION INTO A TWO-STROKE INTERNAL COMBUSTION ENGINE.

Applicant : PIAGGIO & C. S.p.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A. COCCHI, 6-GENOVA, ITALY.

Inventor : MARCO NUTI.

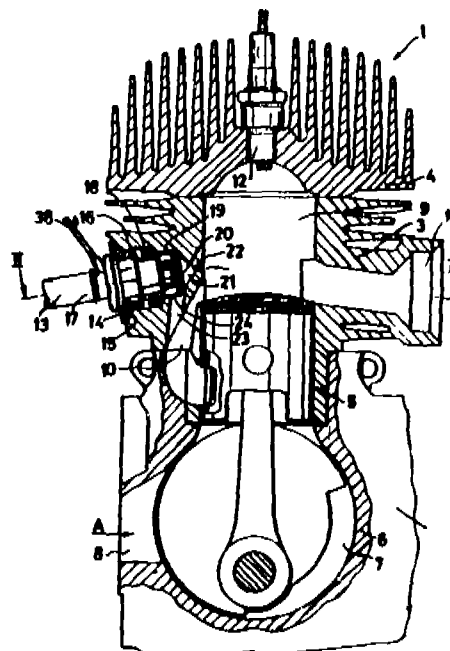
Application for Patent No. 88/Del/87 filed on 3rd February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

4 Claims

Device for the low-pressure injection of fuel into a two-stroke engine having at least one cylinder and related piston with at least two electrically operated injectors rigidly connected to each cylinder

with their outlets in communication with the combustion chamber located within said cylinder, the opposite ends of said injectors being connected to and fed by a fuel feed system characterised in that a control unit is connected between said injectors and said engine for controlling as a function of the operating parameters of said engine the delivery of fuel from said injectors into said combustion chamber.



Compl. Specn. 15 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 170A.
Int. Cl.⁴ : C11D 1/66.

168163

A HEAVY DUTY LIQUID DETERGENT COMPOSITION.

Applicant : COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 3000 PARK AVENUE, NEW YORK, 10022, UNITED STATES OF AMERICA.

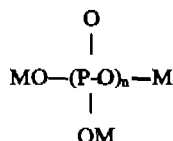
Inventors : TRAZOLLAH OUHADI & LOUIS DEHAN.

Application for Patent No. 108/Del/87 filed on 11th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

5 Claims

A heavy duty liquid detergent composition which comprises from 10 to 60% by wt. of said composition of at least one conventional liquid nonionic surfactant detergent with a conventional builder salt dispersed thereon, and upto 30% by wt. of one or more conventional fabric treating additives, characterised in that said composition includes as the principle detergent builder salt from 10 to 60% by wt. of a long linear chain condensed polyphosphate dispersed in said surfactant, said polyphosphate builder salt having the general formula



wherein M is a member selected from the group consisting of hydrogen, alkali metal and ammonium cation, and $n=20$ to 30.

Compl. Specn. 34 Pages.

Drg. Nil.

Ind. Cl.: 116F.

168164

Int. Cl.⁴: B66B 17/00 23/00, 23/02.

MODULAR GEARLESS ELEVATOR DRIVE ASSEMBLY

Applicant: OTIS ELEVATOR COMPANY, A CORPORATION OF THE STATE OF NEW JERSEY, UNITED STATES OF AMERICA, OF TEN FARM SPRINGS, FARMINGTON, CONNECTICUT 06032, UNITED STATES OF AMERICA.

Inventor: WILLIAM HAROLD GIBSON.

Application for Patent No. 141/Del/87 filed on 17th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

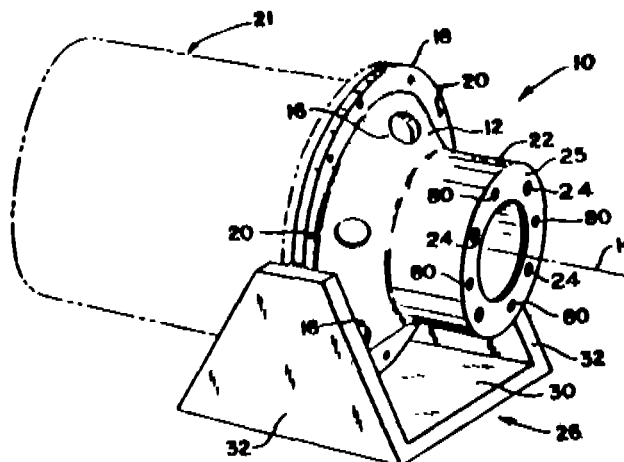
6 Claims

A modular gearless elevator drive assembly including a motor and a sheave wherein:

the front endcap (10) of the motor comprises a concave disc-like portion (12) coaxial with the motor axis a tubular boss (22) extending outwardly from the center of the disc-like portion (12), wherein the boss (22) has a cylindrical bore portion (36) and a stop (37) at the front opening of the boss bore portion;

the sheave (56) comprises an outer rim portion (72) connected via an intermediate disc portion (74) to an inner hub portion (54) for attachment to the motor; and

the motor (21) comprises a tubular housing (40), a shaft (44) extending axially out the front of the housing (40), wherein a first portion (50) of the shaft (44) extends past the boss (22) for receiving the hub portion (54) of the sheave; wherein the second portion (66) of the shaft (44) located within the boss (22) in correspondence with the cylindrical bore portion (36) of the boss (22) for receiving a bearing (68) between the second shaft portion (66) and the cylindrical bore portion (36), the said first portion of the shaft (50) is extended beyond the said (22) to receive the said sheave (56) and the said rim portion (72) of the said sheave is disposed over the said boss (22) so that the sheave load is more in line with the said bearing (68).



Compl. Specn. 10 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 32E IX (1).

168165

Int. Cl.⁴: C08G 63/32.

A PROCESS FOR RE-POLYMERIZING A POLYMERIC MATERIAL

Applicant: KENRICH PETROCHEMICALS, INC. A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, LOCATED AT 140 EAST 22nd STREET, BAYONNE, NEW JERSEY 07002, UNITED STATES OF AMERICA.

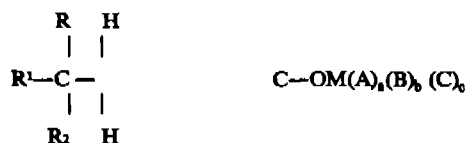
Inventors: GEBALD SUGERMAN & JOSEPH SAIVATORE MONTE.

Application for Patent No. 147/Del/87 filed on 19th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

6 Claims

A process for repolymerizing a polymeric material of the kind such as herein described which comprises treating said polymeric material with from 0.005 to 5 wt. % of a neoalkoxy compound having the formula:



wherein M is titanium or zirconium, R, R¹ and R² are each a monovalent alkyl, alkenyl, alkynyl, aralkyl, aryl or alkaryl group having up to 20 carbon atoms or a halogen or other substituted derivative thereof, and, in addition, R² may also be an oxyderivative or an other substituted oxy derivate of said groups; A, B and C are each a monovalent alkoxy, thioalkoxy, diester phosphate, diester pyrophosphate,

oxyalkylamino sulfonyl or carboxyl containing upto 30 carbon atoms; and $a+b+c=3$, and subjecting said admixture to conventional polymerization condition.

Compl. Specn. 45 Pages.

Drw. Nil.

Ind. Cl. : 128, F, I, [XIX (2)].

168166

Int. Cl.⁴ : A61M 15/00.

A POWDER INHALATOR.

Applicant : AKTIEBOLAGET DRACO, OF BOX 34, S—221 00 LUND, SWEDEN, A SWEDISH COMPANY.

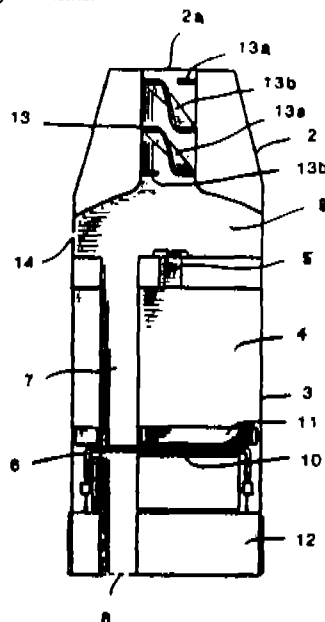
Inventors : KJELL INGVAR LEOPOLD WETTERLIN, RISTO & JAN ANDERS ROLAND, ANDERSSON.

Application for Patent No. 156/Del/87, filed on 24th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

13 Claims

A POWDER INHALATOR INTENDED to be used for administration of pharmacologically active compound in atomized or micronized form to the respiratory tract and lungs of a patient by inhalation of air, said inhalator comprising a nozzle unit (2) with a nozzle aperture (2a) and a container unit (3) with a releasing or dosing unit (6) for delivering the active compound, said air flow generated by inhalation being at least partly aspirated through an air conduit (7) in the container unit (3) said conduit extending from an air inlet (8), communicating with the environment through said releasing or dosing unit (6) upto said nozzle unit (2), characterised in that it includes at least one deflector device (13, 15, 16) located fixedly therein for deflecting air flow generated by inhalation, said deflector devices extending substantially towards the centre of said inhalator to impart a powerful deflecting movement to the said air flow generated by inhalation.



Compl. Specn. 12 Pages.

Drws. 5 Sheets.

Ind. Cl. : 206E.

168167

Int. Cl.⁴ : G05F 1/00.

AN IMPROVED COMPUTERISED SYSTEM FOR THE SEQUENTIAL CONTROL AND MONITORING OF DISCRETE DEVICES.

Applicant : THE BABCOCK & WILCOX COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1010 COMMON STREET, NEW ORLEANS, LOUISIANA 70112, UNITED STATES OF AMERICA.

Inventors : THOMAS RICHARD HEILMAN & DAVID MICHAEL NORRIS.

Application for Patent No. 199/Del/86 filed on 3rd March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

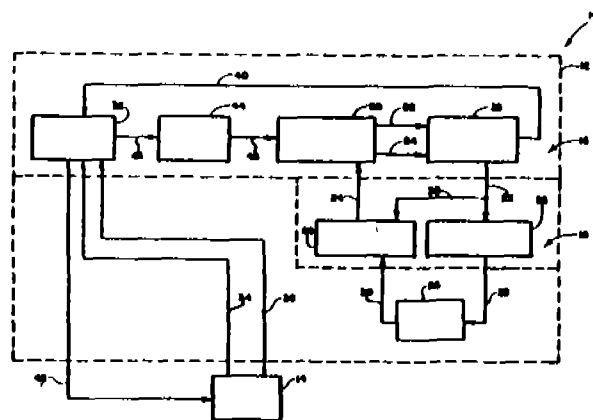
6 Claims

An improved computerised system for the sequential control and monitoring of discrete devices of the kind described herein which comprises : —

device driver means (32) connected to the discrete device or devices (14) to be monitored and controlled, said driver means establishing a signal (46) indicative of the status of said device (14);

monitor function means (44) connected to said device driver means (32) for monitoring said status signal (46) and establishing a control signal (48) indicative of the correct or incorrect operation of said device (14);

sequence control means (50, 38) connected between said monitor function means (44) and said device driver means (32), said control means receiving said control signal (48) and generating in turn therefrom an output signal (40) fed to said device driver means (32) for application to said discrete device (14) for the control or correction thereof.



Compl. Specn. 19 Pages.

Drw. 1 Sheet.

Ind. Cl. : 35B [XXV](2)]

168168

Int. Cl.⁴ : C04B. 7/32.

A METHOD OF MANUFACTURING A SELF SETTING HYDRATED PORTLAND CEMENT COMPOSITION.

Applicant : FOSROC INTERNATIONAL LIMITED, A BRITISH COMPANY, OF 285 LONG ACRE, BIRMINGHAM B7 5JR, ENGLAND.

Inventor : MACDONALD SMART.

Application for Patent No. 272/Del/87 filed on 31st March, 1987.

Convention date 10th April 1986/8608715/8608716/U.K/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

8 Claims

A method of manufacturing a self setting hydrated portland cement composition, said method comprises mixing a catalyst component and a base component, said catalyst component is a paste consisting of lime and water placed in one compartment of a frangible capsule and said base component is a paste consisting of high alumina cement, water and a mixture of CaO and SiO_2 in an other compartment of said frangible capsule, said CaO and SiO_2 in predetermined quantities such that when the frangible capsule is broken and the interactive base and catalyst components are reacted to cause hydration of the cement and thereby manufacturing the hydrated port-land cement composition.

Compl. Specn. 20 Pages.

Drg. 1 Sheet.

Ind. Cl. : 196C
Int. Cl.⁴ : H01J 9/38.

168169

AN APPARATUS FOR CLEANING VENTILATION EXHAUSTS.

Applicant & Inventors : JULIA PAVLOVNA VEBER, OF ULITS A B. BOGATKOVA, 212, Kv. 22, NOVOSIBIRSK, USSR, VYACHESLAV LVOVICH VINOKUROV, OF ULITS A 1905 GODA, 18, KV. 23, NOVOSIBIRSK, USSR, EDUARD YAKOVLEVICH KERNERMAN, OF ULITS A VLADIMIROVSKAYA, 6, KV. 29, NOVOSIBIRSK, USSR, GENNADY IVANOVICH LYSENKO, OF ULITS A OLEKO DUNDICHA, 1, KV. 28, NOVOSIBIRSK, USSR, VLADISLAV VLADIMIROVICH POPOVSKY, OF MORSKOI PROSPEKT, 29, KV. 32., NOVOSIBIRSK, USSR, AND VLADIMIR ANDREEVICH SAZONOV, OF MORSKOI PROSPEKT, 11, KV. 22, NOVOSIBIRSK, USSR, ALL USSR CITIZENS.

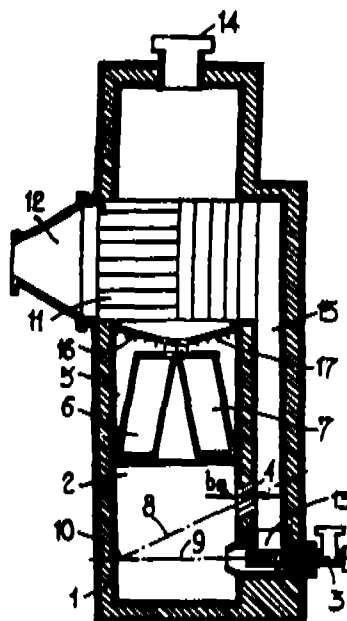
Application for Patent No. 436/Del/87 filed on 19th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

5 Claims

An apparatus for cleaning ventilation exhausts comprising a housing (1) accommodating a furnace (2), a burner (3) connected at the top to a pipe (4) for feeding the ventilation exhausts, an after burner chamber (5) comprising catalytic elements (6, 7) in the form of two inclined tetrahedral prisms in contact with each other at their upper edges and a heat exchanger (11) located in succession above the after burner chamber, a V-shaped distribution grid (16) being provided below the heat exchanger and above the after burner chamber with the vertex thereof facing the after burner chamber, the

said pipe for feeding the ventilation exhausts being mounted so that its axis intersects with the axis of the said burner to equalise the temperature pattern of the air flow.



Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Ind. Cl. : 40B.
Int. Cl.⁴ : C08F 4/00.

168170

A PROCESS FOR PREPARING AN AN OLEFIN POLYMERISATION CATALYST.

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON SW1W 0SU, ENGLAND.

Inventor : GORDON MICHAEL DAWKINS.

Application for Patent No. 588/Del/86 filed on 14th July, 1987.

Convention date July 30th, 1986 & 28th May, 1987, 28th May, 1987/8618586/8712534/8712535/U.K/U.K/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

17 Claims

A process for preparing an olefin polymerisation catalyst comprising depositing on a dry inorganic oxide of the kind such as herein described a chromium-containing organometallic complex wherein said chromium-containing organometallic complex is a bimetallic complex comprising chromium and a second transition metal, said complex being represented by the general formula represented by Fig. II of the accompanying drawings, wherein, the groups R are C_1 to C_6 saturated or unsaturated hydrocarbyl groups;

H is hydrogen

a and b are individually 0 or an integer from 1 to 5, the sum of a+b being equal to 5;

M is a transition metal selected from the group consisting of Ti, Zr, Hf, V, Cr, Fe, Nb, Mn, Ni and Co;

the groups L and L' are ligands which are individually a carbonyl ligand or a C₁ to C₁₅ hydrocarbyl ligand;

x is an integer from 1 to 3 depending on the available coordination sites on the chromium atom;

y is an integer from 1 to 5 depending on the available coordination sites on the transition metal M and

A represents the linkage between the chromium atom and the transition metal M and is a direct metal-metal bond, an ionic bond, at least one carbonyl bridging group or a combination thereof.

Compl. Specn. 21 Pages.

Drgs. 2 Sheets.

CLASS : 136E.

168171

Int. Cl. : B 29 c 39/04, 57/00.

HOLLOW BODY METHOD AND APPARATUS FOR PRODUCING THE SAME.

Applicant : PETAINER S A, OF C/O ETUDE ET MEYLON, P.O. BOX 543, CH-2001 NEUCHÂTEL/SWITZERLAND.

Inventor : TORSTEN NILSON.

Application No. 356/Cal/1986 filed on 8th May, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

19 Claims

A hollow body (19) having an axis and comprising an axially directed wall of oriented and/or crystallised plastics material, said body being formed from a preform which is expanded both axially and circumferentially, characterised in that the walls of the body have a uniform thickness both in axial sections and in sections at right angles to the axis, in regions of equal expansion in the circumferential direction.

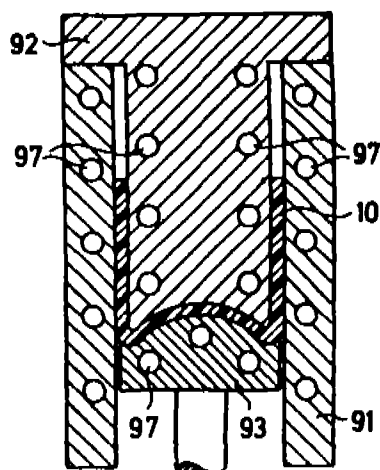
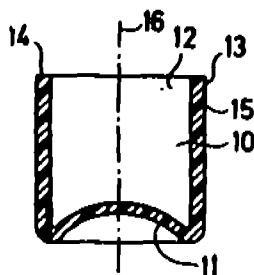


Fig. 2

Compl. Specn. 23 Pages.

Drgs. 6 Sheets.

CLASS : 5-D.

168172

Int. Cl. : B 26 d 1/00.

A CUTTER BLADE ASSEMBLY FOR A ROTARY CUTTING MACHINE AND A ROTARY CUTTING MACHINE INCORPORATING THE SAME.

Applicant : SECK WING CHEE, OF 25 JALAN UNGGAS, SINGAPORE 1129.

Inventor : SECK WING CHEE.

Application No. 94/Cal/1989 filed on 30th January, 1989.

Convention dated 11th June, 1985; No. GB 8514667; U.K. and dated 3rd July, 1985; No. GB 8516793; U.K.

[Divisional of Application No. 26/Cal/1986 Ante-dated to 14th January, 1986.]

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

A cutter blade assembly for a rotary cutting machine comprising a cutter head rotatable about an axis, a cutter blade having a cutting surface, a pivotal mounting for the cutter blade on the cutter head, the pivotal mounting being positioned so that the cutting surface of the cutter blade can be pivoted outwards clear of the cutter head under the centrifugal force during orbiting of the blade with the head, and retention means for the cutter blade operatively engagable with a slot, the slot having a pair of opposed ends joined by side edges, the retention means being operatively disengaged during said orbiting from the said opposed ends and side edges until loss of said pivotal mounting, the retention means being an upstanding projection engagable upon said loss of the pivotal mounting with a side edge of the slot, the cutter head including one of the projection and slot and the cutter blade including the other of the projection and slot.

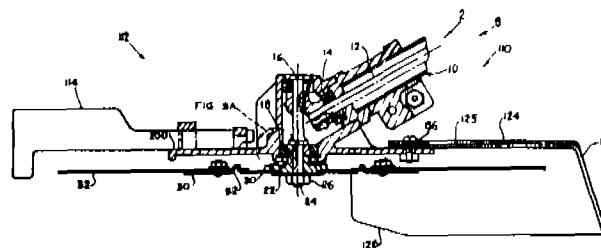


Fig. 3

Compl. Specn. 31 Pages.

Drgs. 7 Sheets.

CLASS : 85-A, C.J.
Int. Cl. : F 27 b 1/00, 7/00, 9/00.

168173

AN OPERATING SYSTEM FOR EFFECTING AN EFFICIENT COMBUSTION IN A TANGENTIALLY FIRED PULVERIZED COAL FURNACE.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT 06095, U.S.A.

Inventors : (1) JOSEPH DAVID BIANCA, (2) DAVID KENNETH ANDERSON.

Application No. 168/Cal/1987 filed on 4th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

An operating system for effecting an efficient combustion in a tangentially fired pulverized coal furnace comprising

means for discharging pulverized coal primary into a furnace directed tangentially to an imaginary circle in the center of the furnace at a first level,

characterized in that there is provided means for discharging auxiliary air in a mass more than two times that of the primary air into the furnace at a second level directly above the first level, and

means for directing said auxiliary air tangentially to an imaginary circle and in an opposite direction to the coal and primary air, a plurality of first levels being provided at the location where primary air and coal are introduced, with each such first level being separated by a second level where auxiliary air is introduced, so as to produce fire balls rotating in opposite directions moving upwardly within the furnace with the ultimate entire fire mass rotating in the direction of the auxiliary air introduction because of the greater mass and velocity of air being introduced in this manner, thus provided a good mix of the coal and auxiliary air so that excess air required for complete combustion of the coal is kept to a minimum.

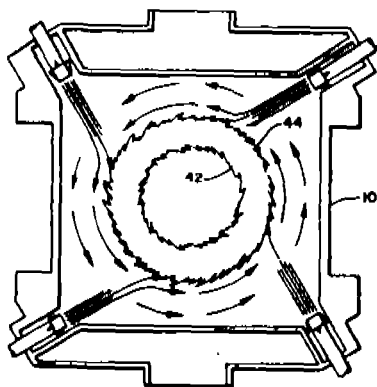


Fig. 4

Compl. Specn. 11 Pages.

Drgs. 3 Sheets.

CLASS : 194.
Int. Cl. : H 05 k 13.04.

168174

A METHOD OF MANUFACTURING SEMICONDUCTOR COMPONENTS.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventor : HERBERT SCGWARZBAYER.

Application No. 195/Cal/1987 filed on 10th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

16 Claims

A method of manufacturing semiconductor components in which the step of joining a semi conductor body to a substrate by pressure sintering comprises :

- (a) applying a paste consisting of metal powder such as herein described and a solvent, in the form of a layer to a contacting layer on the component and/or a contact surface on the substrate,
- (b) drying the applied paste, so as to expel the solvent,
- (c) placing the component on the substrate with said contacting layer and said contact surface juxtaposed, and
- (d) heating the entire arrangement to sintering temperature of at least 150°C whilst simultaneously applying a mechanical pressure of at least 900 N/cm².

Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

CLASS : 186A.
Int. Cl. : H 01 p 1/20.

168175

A DEVICE FOR ADJUSTING THE POLE POSITIONS OF A MULTI-STAGE ELECTRICAL FILTER.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventor : HELMUT FINFGELDER.

Application No. 225/Cal/1987 filed on 20th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

A device for adjusting the pole positions of a multi-stage filter arrangement with a plurality of oscillatory circuit units, comprising a

test oscillator in connection with a frequency counter having a terminal adaptor, each of said oscillatory circuit unit having a coil and a capacitor on a mounting plate with three metallised plug-in terminals formed by individual cut-outs on one side of said mounting plate, and either both outer plug-in terminals each form a common terminal for the coil and the capacitor of the oscillatory circuit to provide a parallel oscillatory circuit, or only one of the outer plug-in terminals forms a common terminal, and the other two plug-in terminals each represents an individual terminal, one for the coil and one for the capacitor.

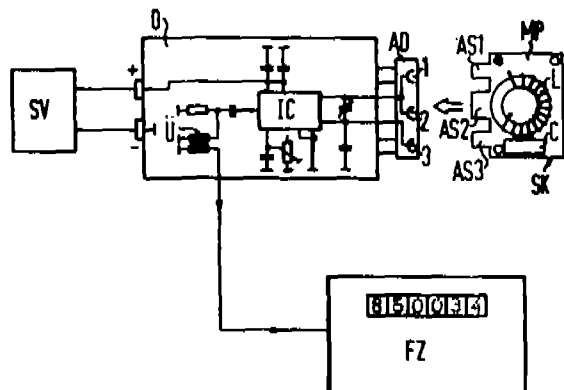


Fig. 4

Compl. Specn. 9 Pages.

Drg. 1 Sheet.

CLASS : 195-D.
Int. Cl : F 16 k 1/42.

168176

BUTTERFLY VALVE CONSTRUCTION HAVING A COMPOSITE SEAT.

Applicant : KEYSTONE INTERNATIONAL HOLDINGS CORP., OF 9600 WEST GULF BANK DRIVE HOUSTON, TEXAS 77040, U.S.A.

Inventors : (1) WILLIAM BRYCE SCOBIE, (2) PAUL ANTHONY YOHNER.

Application No. 233/Cal/1987 filed on 25th March, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A valve seat for a butterfly valve comprising an annular, resilient member having an annular web and first and second, spaced, radially outwardly extending annular flanges depending from said web, and said flanges defining a radially outwardly opening annular channel;

a reinforcement means bonded to said resilient annular member, said reinforcement means comprising :

a plurality of circumferentially spaced, generally axially extending spacer elements, said spacer elements being bonded to said web and extending generally around said annular member;

a plurality of first circumferentially spaced, radially outwardly extending leg elements, said first leg elements depending from a first end of said spacer elements, said first leg elements being in said first flange and extending generally around said annular member; and

a plurality of second circumferentially spaced, radially outwardly extending leg elements, said second leg elements depending from a second end of said spacer elements, said second leg elements being bonded to said second flange and extending generally around said annular member;

said spacer elements and said first and second leg elements being made of a material that is more rigid than the material of said resilient annular member.

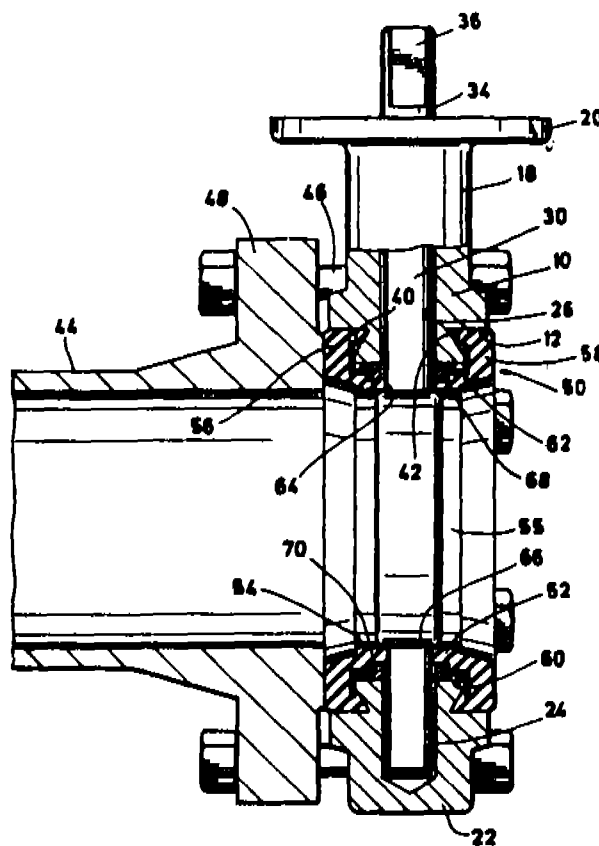


Fig. 1

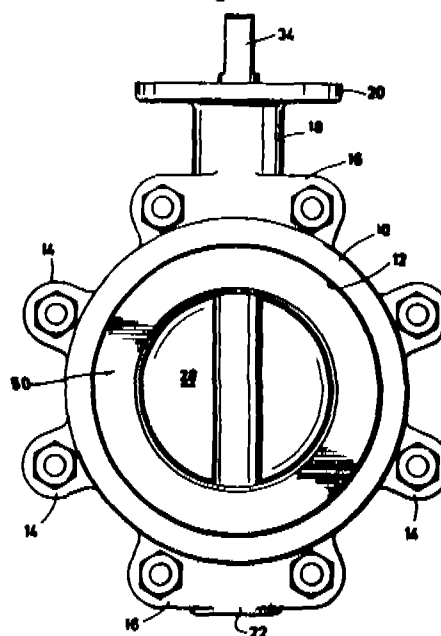


Fig. 2

Compl. Specn. 19 Pages.

Drgs. 3 Sheets.

CLASS : 63-A₂.
Int. Cl. : H 02 p 7.00.

168177

VARIABLE SPEED CONTROLLED INDUCTION MOTOR.

Applicant : SATAKE ENGINEERING CO. LTD., LOCATED AT 7-2, SOTOKANDA 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventor : TOSHIHIKO SATAKE.

Application No. 414/Cal/1987 filed on 25th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A variable speed controlled induction motor comprising :

a rotor formed in one piece having a plurality of rotor cores mounted, with a predetermined air space or a non-magnetic core portion being provided therebetween on a common axis and having a plurality of conductive members interconnected and respectively mounted on said rotor cores;

a plurality of stators having a plurality of stator cores disposed side by side and surrounding facing said respective rotor cores and having stator windings wound respectively on said stator cores, said stator windings being connected or coupled in series with respect to a power source;

connecting members short-circuiting said conductive members at said air space or non-magnetic core portion disposed between said rotor cores; and

phase shifting means for production phase difference between the voltages induced on the portions of said conductive members which face one of said plurality of stators and the voltage induced on the corresponding portions of said conductive members which face another one of said stators.

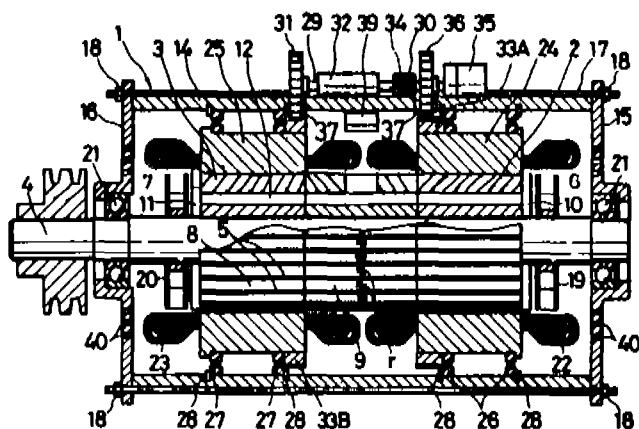


Fig. 1

Compl. Specn. 51 Pages.

Drgs. 13 Sheets.

CLASS : 71-E.
Int. Cl. : B 65 g 65/00.

168178

AN APPARATUS FOR USE IN UNLOADING OF MATERIALS FROM RAILWAY OR SIMILAR CARRIERS.

Applicant : VANAGALA PATTABHI OF 9/1 R.N. MUKHERJEE ROAD, CALCUTTA-700 001, WEST BENGAL, INDIA.

Inventor : SHRI JAYANTI LAKSHMI SATYANARAYANA SWARUP.

Application No. 528/Cal/1987 filed on 9th July, 1987.

Complete Specification left on 8th November, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

11 Claims

An apparatus for use in unloading material from railway wagons or similar carriers, which apparatus comprises a support member, a mechanism supported on said support member and adapted to provide relative up and down movement, one end of a scooping member being mounted on said mechanism, said scooping member being of a type which can swivel on its axis and also provide a lateral movement to required extent in any required position, the said scooping member also being provided with one or more scooping blades at its free end.

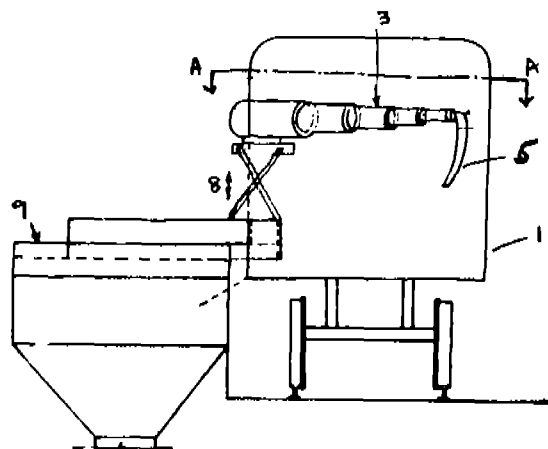


Fig. 1

Compl. Specn. 12 Pages.
Provl. Specn. 8 Pages.

Drgs. 2 Sheets.
Drg. Nil.

CLASS : 172-C₂; 9-B.
Int. Cl. : D 01 G 7/00.

168179.

AN OPENING DEVICE FOR THE OPENING OF COMPRESSED FIBRE BALES.

Applicant : TRUTZSCHLER GmbH & CO. KG., OF DUVENSTR. 82-92, D-4050, MONCHENGLADBACH 3, WEST GERMANY.

Inventors : (1) JOSEF TEMBURG, (2) FERDINAND LEIFELD.

Application No. 719/Cal/1987 filed on September 09, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

An opening device for the opening of compressed fibre bales, e.g. Cotton and rayon staple fibre bales and similar things, where fast moving opening rollers containing opener discs or needles are provided and catch together with a grate, the grate bars of which are placed between the opener discs, e.g. tooth lock washers or needles, whereby the opening device and the fibre bales move past against each other and the teeth of the opener discs or needles, as the case may be, catch in the fibre bales, wherein each opener roller (5, 6) is associated with an individual grate (3, 4) whereby the open ends (3', 4') of the grate bars (3a to 3c and 4a to 4c) are turned towards each other and the open end regions (3', 4') of the grate bars (3a to 3c; 4a to 4c) stand away by an angle (α) from the surface (1a) of the fibre bale (1).

Compl. Specn. 17 Pages.

Drgs. 4 Sheets.

CLASS : 63-B.

168180

Int. Cl. : H 02 k 1/00.

FULL FLUX REVERSAL VARIABLE RELUCTANCE MOTOR-GENERATOR MACHINE.

Applicant : MAGNETICS RESEARCH INTERNATIONAL CORPORATION, OF 50TH SOUTH SECOND STREET, FAIRFIELD, IOWA 52556, UNITED STATES OF AMERICA.

Inventors : (1) DANIEL WAYNE MCGEE, (2) FREDERICK BRADFORD REITER, JR., (3) VAMARAJU SREE RAMA MURTHY.

Application No. 758/Cal/1987 filed on September 24, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

A full flux reversal variable reluctance brushless motor generator machine comprising

an annular, magnetically permeable stator having a plurality of fixed poles having pole faces that define an annular stator surface and a central axis;

at least one electrical winding surrounding at least one portion of the stator;

a magnetically permeable rotor including a shaft mounted for rotation about the central axis and in magnetic circuit with certain of the pole faces of the stator, the rotor comprising

a main component defining alternate sections of high and low magnetic permeability, and

a shunt component permeability isolated from the main component, the shunt component defining alternate sections of high and

low magnetic permeability that are circumferentially complementary to the sections of high and low magnetic permeability of the main cylindrical component; and

magnetic means for generating a magnetic flux, characterized in that the magnetic flux therefrom is radially oriented and the magnetic means is in magnetic circuit with and disposed between the main and shunt rotor components, such that rotation of the rotor induces variations in flux magnitude and flux direction in the stator without reversing flux direction in the rotor.

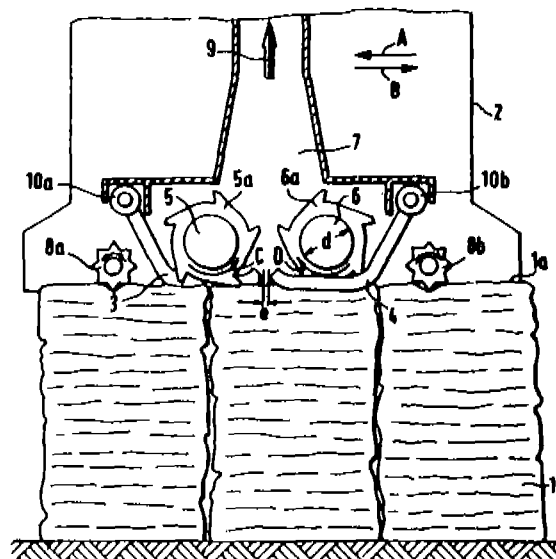


Fig. 1

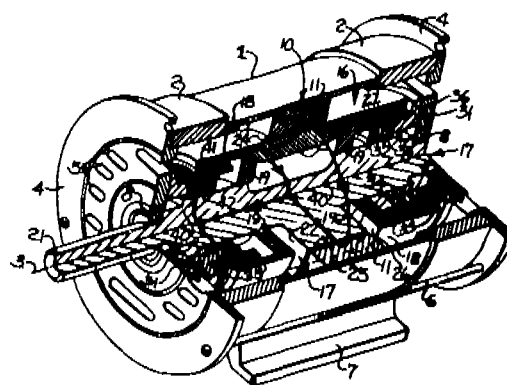


Fig. 2

Compl. Specn. 23 Pages.

Drgs. 6 Sheets.

Ind. Cl. : 32F1, IX(1)+55E4 XIX

168181

Int. Cl. : A 61K—27/00, C07 D—311/00.

A PROCESS FOR THE PREPARATION OF NOVEL POLYOXYGENATED LABDANE DERIVATIVES.

Applicant : HOECHST INDIA LIMITED, OF HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA.

Inventors : (1) DR. BANSI LAL, (2) MR. ASHOK KUMAR GANGOPADHYA, (3) DR. ALIHUSSEIN NOMANBHAI

DOHADWALLA AND (4) DR. RAMANUJAM RAJAGOPALAN, ALL INDIAN NATIONALS AND DR. RICHARD HELMUT RUPP, A WEST GERMAN NATIONAL.

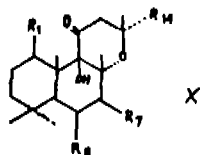
Application No. 265/Bom/1987 filed on August 20, 1987.

Comp. after Prov. left on Nov. 16, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

4 Claims

A process for the preparation of novel polyoxygenated labdane derivatives of the Formula I



Formula I

wherein R_1 stands for OH, R_2 stands for OH or a group of the formula shown in Fig. 1

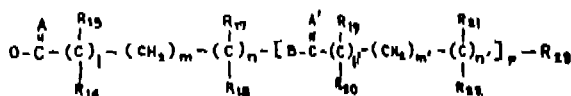
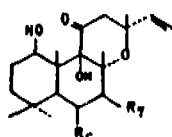


Fig. 1

wherein A and A' stand for oxygen or sulphur, B stands for CH_2 , oxygen, sulphur or NH, R_{15} — R_{23} stand for hydrogen, alkyl, aryl, aralkyl, hydroxy, alkoxy, thiol, halogen or a group of the formula NR_{24} R_{25} , wherein when R_{24} and R_{25} are the same they stand for hydrogen, alkyl, substituted alkyl, aryl, or aralkyl, when R_{24} stands for hydrogen R_{25} stand for alkyl, substituted alkyl, cycloalkyl, aralkyl, aryl, hetero-cycle, amino substituted amino such as dialkylamino, alkylamino, arylamino, aralkylamino, hydroxy, thiol, acyloxy, acyl, carbamoyl, carboxy alkyl, carbalkoxy alkyl, dialkylamino or alkyl, when R_{24} stands for alkyl, R_{25} stands for substituted alkyl, cycloalkyl, aryl, aralkyl, dialkylamino or alkyl, when R_{24} and R_{25} are taken together with the nitrogen atom to which they are attached stand for hetero-cyclic group containing one or more heteroatoms and is optionally substituted at one or more places by alkyl, aryl, hydroxyalkyl, halogen, hydroxy, or alkoxy or another heterocyclic group such as benzimidazole, with the condition that the group shown in Fig. 1 of the drawings accompanying the provisional specification contains a minimum of three of the symbols R_{15} — R_{23} at any one time, with at least one of the three symbols bearing a heteroatom such as N, O or S, and l, m, n, l', m', n' and p stand for the integer 0 to 10, R_7 stands for OH or a group of the formula shown in Fig. 1 of the drawings accompanying the provisional specification, wherein A, A', B, l, m, n, l', m', n', p and R_{15} — R_{23} have the same meaning as described above, R_{14} stands for vinyl with the proviso that R_1 , R_2 and R_7 are not simultaneously OH and that when R_7 is O—acetyl, R_1 and R_2 are not OH and X stands for pharmaceutically acceptable salts said process comprises:

i. condensing a compound of the formula IV



Formula IV

wherein R_6 and R_7 are OH and OCOCH_2 OH respectively or OCOCH_2 OH and OH respectively or OCOCH_2 OH and OCOCH_3 , respectively with a carboxylic acid of the formula V



Formula V

wherein m stands for an integer 1 to 10 and R stands for a protected amino group such as tritylamino or a group of the formula NR_{24} R_{25} , wherein R_{24} and R_{25} are as defined above or halogen atom such as chloro or bromo or a reactive derivative of the compound of the Formula V such as activated ester or mixed anhydride.

ii. in case the condensation reaction product contains any protected amino group deprotecting the protected amino group or in case the condensation reaction product contains a halogen atom treating the condensation reaction product with an amine of the formula HNR_{24} R_{25} wherein R_{24} and R_{25} are as defined in the presence of a solvent such as herein described under stirring at temperature ranging from a temperature under cooling with ice to the boiling point of the solvent.

iii. recovering the compound of the formula I from the reaction mixture in a known manner such as herein described,

iv. and, if desired, converting the free compound of the formula I into its acid addition salts in a known manner such as herein described.

Prov. Specn. 24 Pages.

Compl. Specn. 28 Pages.

Drgs. 3 Sheets.

Drg. 1 Sheet.

Ind. Cl.: 29 D [XLI(2)].

168182

Int. Cl.: G 11 C—17/00; G 11 B—5/80.

A METHOD OF MANUFACTURING ELECTRONICALLY OPERABLE ACCESS CARD BY STORING INFORMATION.

Applicant & Inventor: LILADHAR SANNABHADTI, INDIAN NATIONAL 14, ASHAKIRAN, 132, GARODIANAGAR, GHATKOPAR (EAST) BOMBAY-400 077, MAHARASHTRA, INDIA; PRABHAKAR DEODHAR, INDIAN NATIONAL OF LAND MARK, CARTER ROAD, BANDRA (EAST) BOMBAY-400 050, MAHARASHTRA, INDIA.

Application No. 270/Bom/1987 filed on August 26, 1987.

Comp. after Prov. left on Nov. 25, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Bombay-13.

2 Claims

A method of manufacturing electronically operable access card by storing information on a chip, which includes the steps of:

dividing bit locations on the chip into a pair of zones, which are randomly distributed and connecting bit locations of each zone with the help of metallization mask;

storing information in one of said zones and blowing a fuse in the path of writing, which cut-off the said path of writing, to protect said information by making it unalterable, which information is only readable; and

storing information on the other zone, which information is alterable in only one direction, i.e. 'O' to '1' and readable for debiting unit by unit said alterable information after comparing with said unalterable information with the help of a known access device.

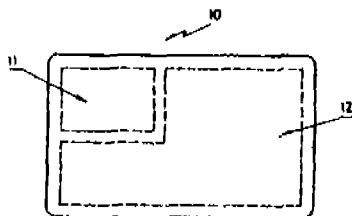


Fig. 1

Protn. Specn. 4 Pages.
Compl. Specn. 10 Pages.

Drq. Nil.
Drq. 1 Sheet.

Ind. Cl. : 108B2(a)—XXXIII(5)
Int. Cl. : C 21B—13/00.

168183

PROCESS AND APPARATUS FOR MAKING SPONGE IRON FROM IRON ORE.

Applicant & Inventor : PRAHALAD DAS GUPTA, 31, SANYOGITA GIANJU, INDORE 452 001 (M.P.), INDIA.

Application No. 229/Bom/1988 filed on August 06, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Bombay.

10 Claims

A process for making sponge iron from "iron ore" comprising:—

- (a) making of porous pellets by mixing iron ore fine powder with agricultural waste material (like rice husk, saw dust, ground nut shell, bagasse, mahua de-oiled cake and straw) and bentonite;
- (b) feeding coal and flux (lime/dolomite) in the gasifier and said pellets in reactors 2, 3, 4, 5 & 6 as shown in Fig. 1;
- (c) supplying of heated air to the gasifier coming from pre-heated regenerative stove for burning coal;
- (d) producing hot reducing gas (carbon monoxide) in the gasifier for reduction of the said pellets;
- (e) draining of melted coal ash from hearth well 17 as shown in Fig. 3 of the gasifier;
- (f) absorption (desulfurisation) of sulfur from the said hot reducing gas in the said gasifier by reaction with lime/dolomite;
- (g) passing the said hot reducing gas at a temperature of 1100°C to 1150°C through the exit 22 into the dust collector 41 for collecting dust from the said hot reducing gas as shown in Fig. 1;
- (h) passing the said dust free hot reducing gas into reactor 2 as shown in Fig. 1, containing said pellets, performing direct reduction as herein described;

- (i) passing the said hot reducing gas coming from reactor 2 into reactors 3 and 4 as shown in Fig. 1, containing said pellets, respectively, performing indirect reduction as herein described;
- (j) passing the said hot reducing gas coming from reactor 4 into reactor 5 as shown in Fig. 1, containing said pellets, performing indirect reduction and pre-heating of said pellets;
- (k) passing the said hot reducing gas coming from reactor 5 into dust collector 7 as shown in Fig. 1 for separating dust;
- (l) passing the said dust free hot reducing gas coming from dust collector 7 into regenerative stove 8 as shown in Fig. 1, for burning the same and heating the stove;
- (m) disposing of the said burnt hot reducing gas coming from regenerative stove into the atmosphere through stack 10 as shown in Fig. 1;
- (n) placing said reactors 2, 3, 4, 5 and 6 as shown in Fig. 2 in cyclical order for cyclical batch operation as herein described.

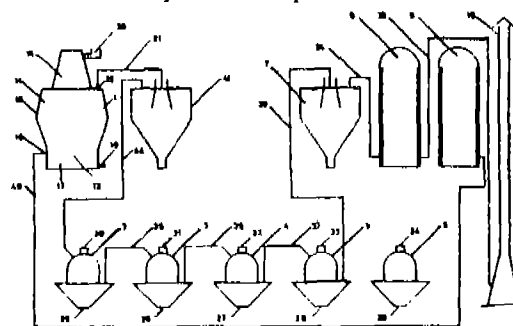


Fig. 1

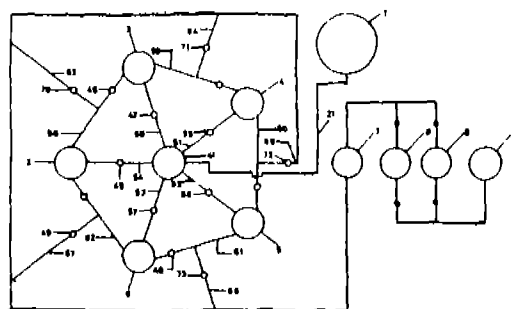


Fig. 2

Compl. Specn. 26 Pages.

Drqs. 3 Sheets.

Ind. Cl. : 189 (LVI)
Int. Cl. : A 6 K—7/16, 7/18.

168184

PROCESS FOR THE PREPARATION OF TOOTH PASTES.

Applicant : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020.

Inventor : RALPH MARSLAND DUCKWORTH.

Application No. 237/Bom/1988 filed on August 19, 1988.

U.K. Convention priority date 21-8-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Bombay-13.

7 Claims

A process for the preparation of a toothpaste comprising mixing 5 to 75% by weight of an abrasive cleaning agent such as herein described 0.1 to 8% by weight of a therapeutic agent such as herein described 0.01 to 0.6% by weight of a flavouring agent such as herein described 0.002 to 0.1% by weight of sodium saccharinate or the equivalent amount of another sweetening agent such as herein described.

Compl. Specn. 18 Pages.

Drg. Nil.

Ind. Cl. : 63 I g [LVII(1)].

168185

Int. Cl. : G 01 V—3/08, F 03 G—7/00.

A ROTARY MACHINE FOR PRODUCING POWER BY GRAVITATIONAL-PULL MAGNETIC-FORCE AND LEVER-AGE.

Applicant & Inventor : SATYA PRAKASH VERMA, SUPERINTENDING ENGINEER, M.P. ELECTRICITY BOARD, POST: CHACHAI—484220, DIST. SHAHDOL (M.P.) NATIONALITY INDIAN.

Application No. 239/Bom/1988 filed on August 22, 1988.

Comp. after Prov. left on Oct. 05, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Bombay-13.

4 Claims

A rotary machine for producing power by gravitational pull, magnetic force and leverage, comprising a rotor^a and a stator^b, wherein the rotor comprises of a central axle^a on which are fixed plurality of radial levers^c, a rim^d surmounting the levers, each lever carrying a movable rider^e with permanent-roller-magnets^w mounted thereon, the said riders alongwith the roller magnets are adapted to slide freely on the levers and the roller-magnets are adapted to rotate about their axes, and wherein the radial-distances of the roller-magnets mounted on the said levers are regulated on both the sides of the central-axle without obstructant their rotary motion with the help of a magnetic-device placed on the stator, the said magnetic-device is constituted of powerful permanent magnets^{RM} namely repulsion-magnets^{RM} and guide-plates^p made of magnetic material, the said repulsion-magnets having same polarity as that the roller-magnets, are arranged on the stator in one of the vertical half-sections of the machine at different radial distances in such a manner that in the lower-quadrant of that half-section namely repulsion-zone, the magnetic-force exerted by the said repulsion-magnets, causes the roller-magnets to levitate and occupy shorter radial distances and in the upper-quadrant of the same zone the roller-magnets while levitating, are gradually repelled back to the rim, whereas the plates provided in the other vertical half section namely power-zone, retain the roller-magnets at greater radial-distances.

Provn. Specn. 3 Pages.

Drg. Nil.

Compl. Specn. 14 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 29D[XLI(2)], 206E [LXII]

168186

Int. Cl. : G06F—7/00

NETWORK SYSTEM USING TOKEN-PASSING BUS ACCESS METHOD FOR USE IN A PROCESS CONTROL SYSTEM.

Applicants : KABUSHIKI KAISHA TOSHIBA, 72 HORIKAWA-CHO, SAIWAI-KU, KAWASAKI-SHI, JAPAN.

Inventor : YASHUHISA SHIOBARA

Application No. 258/Bom/1988 filed on Sept. 9, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Bombay-13.

14 Claims

A network system using a token-passing bus access-method such as herein described, comprising :

a bus type transmission path;

a plurality of nodes, copled to said transmission path, for executing a priority processing algorithm based on a standard of an IEEE 802.4 token-passing bus such as herein described or that of a bus functionally substantially equivalent to said token-passing bus;

a plurality of common memories respectively included in said plurality of nodes and each having a mutually common address structure; and

a plurality of communication means, respectively included in said plurality of nodes, for communicating storage contents of said common memories of said plurality of nodes between said common memories through said transmission path in accordance with priority levels of said priority processing algorithm.

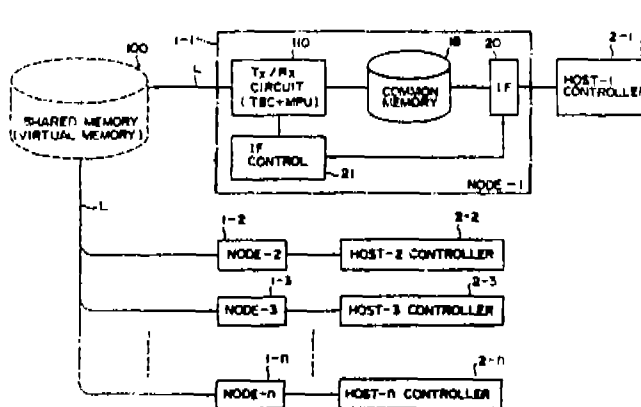


Fig. 1

Compl. Specn. 39 Pages.

Drgs. 11 Sheets.

Ind. Cl. : 85 F [XXXI], 116 G—[XLIX]

168187

Int. Cl. : F 27 D-3/04, F 23 H—11/12, B 65 G—25/08.

AN ADVANCED RECIPROCATING CONVEYOR SYSTEM FOR PROPELLING SOLID FUEL/MATERIALS TO FURNACE AND THE LIKE PLANT.

Applicant : KAMALENDU MUKHERJI OF 'JYOTIPRASAD'
39/B ASHWINI HOUSING SOCIETY, BOMBAY PUNE ROAD,
PUNE-411 005, MAHARASHTRA, INDIAN, AN INDIAN
NATIONAL.

Application No. 290/Bom/1988 filed on October. 14, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Branch Bombay-13.

6 Claims

An advanced reciprocating conveyor system for propelling solid fuel/materials to furnace and the like plant mainly comprising of a plurality of conveyor members consisting of grate bars arranged in a number of parallel rows inside the plenum chamber, each grate bar being provided on its under side an integral rib having a slot for engaging with a support rod, the said plenum chamber being divided into a number of sections with the help of partition plates; the support rod of alternate grate bar in each row being fixedly mounted on the said partition plates and the support rod of remaining alternate grate bar in each row being movably connected, through a mechanical lever, oscillating about a fulcrum, to a reciprocating lever connected to a drive mechanism thereby providing an alternate moving grate bar and a fixed grate bar adjacent to it in each row.

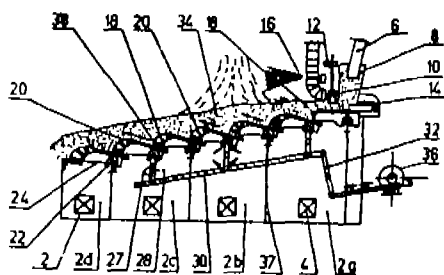


Fig. 1

Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 49H [XV(1)]
Int. Cl. : A47 J-27/00, 27/04.

168188

AN IMPROVED PRESSURE COOKER HAVING A BOTTOM
VESSEL WITH AN OVAL SHAPED MOUTH AND A CORRESPONDINGLY
SHAPED LID ADAPTED TO BE SEALINGLY
ACCOMMODATED TO THE UNDERSIDE OF THE SAID
OVAL MOUTH.

Applicants : HAWKINS COOKERS LIMITED, F-101 MAKER
TOWERS, CUFFE PARADE, BOMBAY-400 005, MAHARASH-
TRA, INDIA.

Inventor : (1) NARANAMNALPURAM SANKARAM SUB-
RAMANIAN.

Application No. 292/Bom/1988 filed on Oct. 17, 1988. POST
DATED TO OCT. 5, 1990.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Branch Bombay-13.

2 Claims

An improved pressure cooker, having a bottom cooking vessel
with an oval shaped mouth, and a correspondingly shaped lid, adapted
to be sealingly accommodated to the underside of the said oval
mouth, characterized by the improvement whereby the surface area
of the metal required to form the cooking vessel is optimised to a
minimum, by forming the cooking vessel to have the following
features:—

- (i) The side wall of the pressure cooking vessel is curved sur-
face of revolution about its central vertical axis.

- (ii) The diameter of the vessel at the bottom face corresponds to the minor diameter of the oval mouth of the vessel, and the diameter at the top corresponds to the major diameter of the oval lid,
- (iii) The curve connecting the bottom and top diameters is an arc of a circle,
- (iv) The centre of the said arc of the circle is located on the perpendicular bisector of the slanted line joining of the corresponding extremities of the bottom and top diameters of the vessel so that the centre lies on the fartherside of the central vertical axis, as well as above the middle horizontal axis of the vessel,
- (v) The optimum radius of the said arc of the circle being determined by the following formulae A and B as herein described.

FORMULA A

$$\text{Volume of Vessel } V = \frac{\pi}{12} H (T_1^2 + T_1 T_2 + T_2^2) + \pi (T_2 + t \sin \alpha + 2 \cos \alpha (X_0 - R \cos \phi) \times R^2 \left\{ \frac{\pi}{180} \frac{1}{2} \sin 2 \phi \right\})$$

where H is the height of the vessel in Cms, π is in degrees.

T_1 & T_2 are respectively the top and bottom diameters of the vessel in cms.

α is the angle marked in figure 1 in degrees.

X_0 is the distance of the centre of Gravity of the arc from the arc centre in cms.

ϕ is the angle shown in figure 1 in degrees

R is radius of the arc of the circle in cms t is the thickness of the vessel in cms.

V is the volume of the vessel in c cms.

FORMULA B

$$D = T_1^2 + T_2^2 - B_m B_n + \frac{\pi}{45} R (2\phi) (T_2 + t \sin \alpha + 2 \cos \alpha (X_0 - R \cos \phi))$$

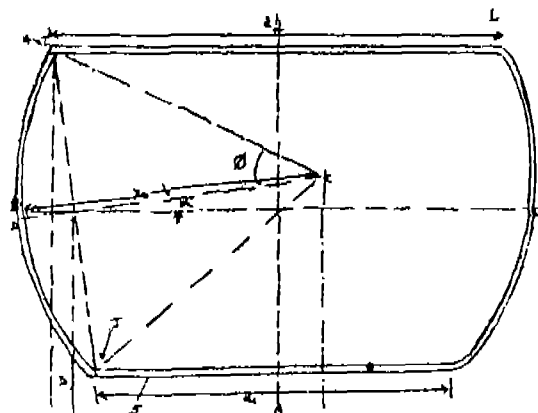
where D is the Diameter of the circular blank used for making the vessel.

$\pi, T_1, T_2, R, \alpha, t, x_0 \phi$ are as defined in formula A.

B_m is the major diameter of the oval mouth in cms.

B_n is the minor diameter of the oval mouth in cms.

B_m and B_n being fixed values.



Compl. Specn. 18 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 56 G—[V], 94 G & I XXXIII(4), 37 A & C 168189
[XXXIV(1)].
Int. Cl.: C 13 F—1/06.

A SELF-DISCHARGING FLAT-BOTTOM CENTRIFUGAL BASKET FOR SEPARATION OF SUGAR CRYSTALS FROM MASSECUTE.

Applicant & Inventor: SWANAND ANANT GOGATE, AN INDIAN NATIONAL AND PROPRIETOR OF PRIME ENGINEERING AND SOFTWARE CONSULTANTS, AN INDIAN FIRM HAVING ITS OFFICE AT 8, MANU, CHEDA NAGAR, CHEMBUR, BOMBAY-400 089, MAHARASHTRA, INDIA.

Application No. 303/Bom/1988 filed on November. 1, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Bombay-400 013.

9 Claims

A self-discharging flat-bottom centrifugal basket for separation of sugar crystals from massecuite, said basket comprising a vertically disposed perforated hollow cylindrical member provided with a top cover rigidly fitted to the top thereof, said top cover being provided with a circular centre opening, the bottom of said cylindrical member being open and provided with a bell-shaped flange rigidly fitted to the bottom thereof, perforated screens being located on the inner surface of said cylindrical member with the lower end of said screens supported on the upper end of said flange protruding inwardly the inner surface of said cylindrical member, said cylindrical member being rigidly supported on a hub using a hollow annular member which is inverted L-shaped in cross-section and spaced apart support members which are T-shaped in cross-section, said annular member being fixed to the lower end of said flange, and one end of each of said support members being fixed to said annular member and the other end of each of said support members being fixed to said hub which in turn is mounted at the lower end of a basket shaft extending beyond the bottom of said cylindrical member and said centre opening in said top cover in spaced apart relationship therewith, the upper end of said basket shaft being rotatably connected to the shaft, of a speed reduction electric motor using a first ball bearing and a coupling, a mechanical brake assembly consisting of a brake drum mounted on said basket shaft and brake shoes engaged on said brake drum and anchored on the bed plate of said speed reduction electric motor using first helical expansion springs a flat bottom plate supported on a cone which in turn is disposed in said cylindrical member and vertically up and down slidably and rotatably supported on said basket using a pair of spaced apart first journal bearings, said cone being mounted on the housing of said first journal bearings, which in turn are mounted on said basket shaft, said bottom plate being provided with a downwardly directed outwardly inclined collar, the outer surface whereof registering with the confronting inner surface of said flange to provide a leak proof joint between said flange and collar, sealing means provided between the outer surface of said collar and confronting inner surface of said flange, said bottom plate being reinforced by spaced apart rib members fixed thereto and further provided with a plurality of spaced apart disintegrator means supported around the upper surface periphery thereof, a sleeve vertically disposed over said basket shaft in spaced apart relationship therewith, the lower end of said sleeve being supported on the upper ends of said cone and the housing of said first journal bearings, the upper end of said sleeve being vertically up and down slidably and rotatably supported on said basket shaft using second journal bearing 7E a pair of radial arms disposed directly opposite to each other and supported on the casing of a second ball bearing which in turn is mounted on

the housing of said second journal bearing a helical compression spring located in a depression provided in the housing of said first journal bearings with the lower end of said compression spring being supported on the casing of a third ball bearing mounted on said basket shaft, said compression spring being provided with a guard located in said depression with the lower end of said guard being supported on the casing of said third ball bearing, electromagnet means for maintaining the leakproof joint between the outer surface of said collar and the confronting inner surface of said flange and rocker means for rocking said bottom plate to facilitate self-discharge of sugar crystals.

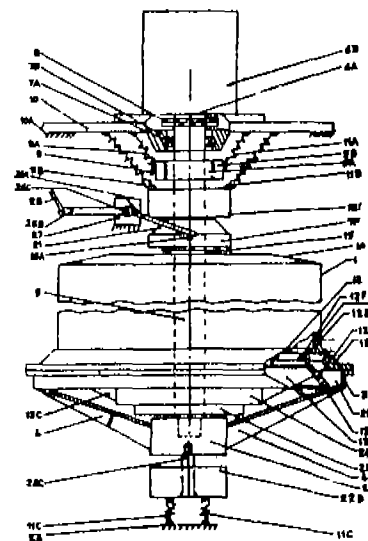


Fig. 1

Compl. Specn. 23 Pages.

Drgs. 9 Sheets.

Ind. Cl.: 98D GR. [VII (2)], 85L GR. [XXXI]. 168190
Int. Cl.: F22 B—21/00

AN IMPROVED MULTI-FUEL FIRED WATER TUBE PACKAGE BOILER.

Applicant & Inventor: KAMALENDU MUKHERJI, 'JYOTI PRASAD', 39/B ASHWINI HOUSING SOCIETY, BOMBAY-PUNE ROAD, PUNE, PIN-411005, MAHARASHTRA, INDIA.

Application No. 322/Bom/1988 filed on 22nd November, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch Bombay-13.

5 Claims

An improved multi-fuel fired water tube package boiler mainly comprising an outer casing preferably made of metal lined from inside with refractory; a radiation zone/furnace provided in the full width at the front part of the said outer casing; a convection zone provided in the full width at the rear part of the said outer casing, the said furnace being covered from all sides by the water cooling tubes; the said convection zone consisting of a water drum at the bottom and a steam drum at the top connected by water tubes and a fuel firing means provided in the said furnace.

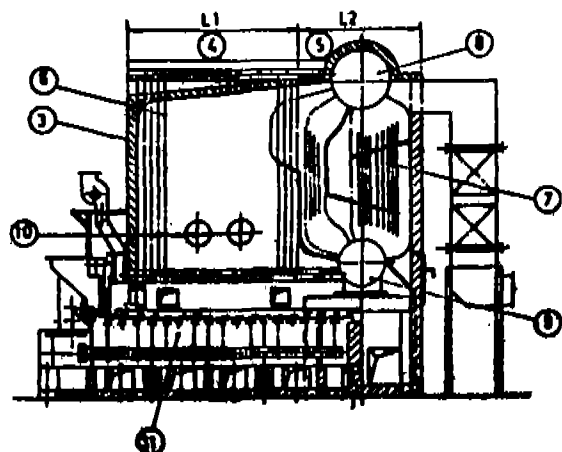


Fig. 7

Compl. Specn. 10 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 140 B1. XI(2)
Int. Cl.⁴ : C10M 129/16.

168191

A DISTILLATE PETROLEUM FUEL OIL COMPOSITION.

Applicant: EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF P.O. BOX FLORHAM PARK, NEW JERSEY 07932, UNITED STATES OF AMERICA.

Inventors: ROBERT DRYDEN TACK, SARAH LOUISE PEARCE & ALBERT ROSSI.

Application for Patent No. 132/Del/1985 filed on 18th February, 1985.

Convention date 21st February & 10th August 1984/8404518/8420435/U.K/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110005.

2 Claims

A distillate petroleum fuel oil composition comprising a distillate petroleum fuel oil, an additive comprising a polymer or copolymer containing at least 25 wt. % of n-alkyl group such as herein described wherein the average number of carbon atoms in the n-alkyl groups is from 12 to 14 and no more than 10 wt. % of alkyl groups containing more than 14 carbon atoms and a co-additive comprising a polyoxyalkylene ester, ether, and mixtures thereof, containing at least two C₁₂ to C₂₀ linear saturated alkyl groups and a polyoxyalkylene glycol of molecular weight 100 to 5,000 preferably 200 to 5,000, the alkyl groups in said polyoxyalkylene glycol containing from 1 to 4 carbon atoms.

Compl. Specn. 25 Pages.

Drg. Nil.

Ind. Cl. : 84 B.
Int. Cl.⁴ : C10L 1/14.

168192

LIQUID FUEL COMPOSITIONS.

Applicant: EXXON CHEMICAL PATENTS INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1900 EAST LINDEN AVENUE, LINDEN, NEW JERSEY 07036, UNITED STATES OF AMERICA.

Inventors: GERALD IVAN BROWN & JUNE KATHLEEN COSTELLO.

Application No. 223/Del/87 filed on 17th March, 1987.

Convention date April 16, 1986 and July 29, 1986/8609293 & 8618397/(U.K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Branch New Delhi-110005.

12 Claims

A liquid fuel composition comprising a distillate fuel containing between 4 and 10 wt% wax at 10°C below cloud point and containing substantially no paraffins having a carbon chain longer than n-triacontane, low temperature flow improver of the kind such as herein described in an amount of from 0.001 to 2.0 wt % based on the weight of the distillate fuel and added n-alkanes to provide C₂₄ and higher alkanes in an amount greater than 0.35 wt % of the fuel.

Compl. Specn. 34 Pages.

Ind. Cl. : 134C [LII(1)].
Int. Cl.⁴ : B60 G 11/00, 11/14.

168193

A SUSPENSION SYSTEM FOR USE IN VEHICLES.

Applicant: GKN TECHNOLOGY LIMITED, A BRITISH COMPANY, OF BIRMINGHAM NEW ROAD, WOLVERHAMPTON, WEST MIDLANDS WV4 6BW, ENGLAND.

Inventors: COLIN EDWARD SPEDDING & ANDREW POLLARD.

Application for the Patent No. 391/Del/87, filed on 5th May, 1987.

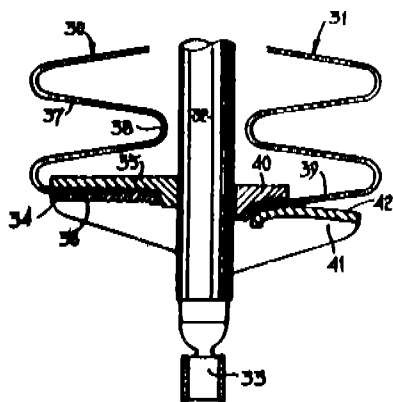
Convention date May 9, 1987/861/340/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

4 Claims

A suspension system for use in vehicles comprising a spring (48) consisting of a strip of fibre-reinforced plastics material of zig-zag configuration having a plurality of limbs (10, 11, 12, 13, 14, 15) connected by reflex portions (17, 18, 19, 20, 21, 22) with the longitudinal centre

line of said strip lying substantially in a single plane and with the end limbs of said strip extending in the same general direction mounting means (50, 52) for mounting the end ones of the limbs of said spring said mounting means (50, 52) comprising securing means superposed over the end ones of said limbs and engaging respectively a fixed member (47) and a pivotable member (45) whereby said spring is mounted for resilient action between said fixed and pivotable members when said pivotable member (45) moves relative to said fixed member (47).



Compl. Specn. 13 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 131C.
Int. Cl.⁴: E21 B23/00.

168194

MECHANICAL PACKER APPARATUS FOR USE MAINLY IN OIL AND NATURAL GAS MINING IN DEEP DRILLINGS.

Applicant: MAGYAR SZENHIDROGENIPARI KUTATO-FEJESZTO INTEZET, OF H-2443 SZAHALOMBATTA, POSTFACH 32, HUNGARY AND KOOLAJKUTATO VALLALAT, OF H-5001 SZOLNOK, POSTFACH 85., HUNGARY, BOTH HUNGARIAN COMPANIES.

Inventors: RUDOLF LASZLO, GEZA SZABO, ISTVAN BENCsik & ATTILA TATAR.

Application for the Patent No. 393/Del/87, filed on 6th May, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

2 Claims

1. Mechanical packer apparatus for use mainly in oil and natural gas mining in deep drillings and comprising:

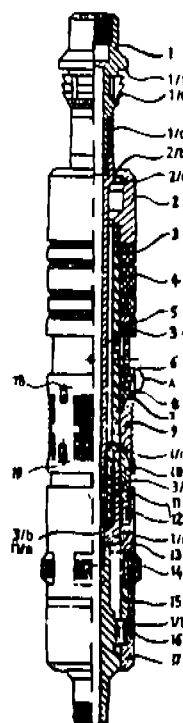
an inner tubular shaft (1) consisting of several elements and provided with buttress threads on its upper and lower ends, with cylindrical stop shoulders and with packing elements (4) said tubular shaft (1) being coaxially surrounded by an apparatus body (3) provided with an upper sleeve (2) as well as a pressure sleeve (5), a stop shoulder (3c), packing elements (4) and lower buttress thread (3a) on outer surface of said tubular shaft (1);

double action wedges (9) being provided between upper and lower wedge deflectors (7, 10) and within a wedge guide sleeve (8) on the outer surface of said deflectors (7, 10) said wedge guide sleeve (8) being connected to the deflectors (7, 10) by pulling pins (18, 19);

a windowed sleeve (13) connected to the lower deflector (10), friction inserts (14) movable in radial directions and tensioned by coil springs nest with the windowed sleeve (13);

a locking device (12) provided between said windowed sleeve (13) and the lower deflector (10), said locking device (12) being a split nut, provided with an inner buttress thread and fitting to the outer buttress thread (3a) of the apparatus body (3).

characterised in that there is provided a sliding sleeve (11) bidirectionally movable on the tubular shaft (1) in between the stop shoulders (1d, 1e) provided on said tubular shaft (1); said sleeve (11) being in its initial position between the outer buttress thread (3a) of the apparatus body (3) and locking device (12), the lower stop shoulder (1e) of the tubular shaft (1) abuts the lower front surface of the sliding sleeve (11), an inner shoulder (11a) of the sliding sleeve (11) being held by the lower front surface (3b) of the apparatus body (3), the upper stop shoulder (1d) of the tubular shaft (1) simultaneously abutting the inner shoulder (11a) of the sliding sleeve (11) in lower position of the tubular shaft (1), wherein a split spring ring (6) is provided between the inner surface of the wedge guide sleeve (8) and the upper deflector (7) within mantle grooves (7a) of the deflector (7), said ring (6) being radially compressed upon exertion of axial force, said spring ring (6) having a tapered surface corresponding to that of the wedge guide sleeve (8).



Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

Ind. Cl.: 32 B.
Int. Cl.⁴: C10 L 1/00, 1/04.

168195

PROCESS AND APPARATUS FOR UPGRADING THE OCTANE OF A HYDROCARBON FEED.

Applicant: UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA WITH OFFICES AT 39 OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventors: An DREW STEPHEN ZARCHY, WARREN KARL VOLLES: & A LUCKE FRANCIS O'KEEFE.

Application for the Patent No. 553/Del/87, filed on 30th June, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

15 Claims

A process for upgrading the octane of a hydrocarbon feed containing non-normal hydrocarbon compounds such as herein described and normal pentane and hexane, comprising;

- (a) passing said hydrocarbon feed to an adsorption section containing an adsorber bed to adsorb normal hydrocarbons from said feed, and to pass non-normal hydrocarbons out of the adsorption section as adsorber effluent;
- (b) passing purge gas through said adsorber bed containing adsorbed normal hydrocarbons to produce a desorption effluent comprising purge gas and normal hydrocarbons;
- (c) passing said desorption effluent through an isomerization reactor to produce a reactor effluent comprising purge gas and reactor hydrocarbon product comprising non-normal and normal hydrocarbons;
- (d) combining at least a portion of said reactor product stream with said adsorber effluent to form an enriched octane product stream comprising normal and non-normal hydrocarbons; and
- (e) separating and recycling said purge gas to said adsorption section.

Compl. Specn. 28 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 39L.

168196

Int. Cl.⁴ : C01F 7/04.

METHOD FOR THE PREPARATION OF IMPROVED ALUMINA FROM POWDER PRODUCED DURING THE CALCINATION OF METALLURGICAL ALUMINA

Applicant : ALUMINA ESPANOLA, S.A., A SPANISH COMPANY, OF APARTADO 86—VIVERO, 27890 SAN CIPRIAN (LUGO), SPAIN.

Inventors : JOSE MANUEL ALVARADO CENDAN & FLOR CAMPA CAAMPA.

Application for the Patent No. 811/Del/87, filed on 16th September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

6 Claims

1. A method for the preparation of improved alumina from powder produced during the calcination of metallurgical alumina which comprises:

- (a) collecting the calcined metallurgical alumina as an extremely thin powder composed of a mixture of aluminas of different calcination degree, both mono and tri-hydrate and with a high sodium content,
- (b) washing the collected calcined alumina powder in order to reduce its sodium content, said washing being effected by repulping said powder with water in a tank with stirring,

(c) separating the solid powder from the washing liquid by decantation,

(d) filtering the separated powder and washing it in water, and

(e) calcining the washed powder at a temperature of from 1100°C to 1400°C with or without the presence of F_2Al whereby it is transformed into improved alumina or corindon.

Compl. Specn. 15 Pages.

Drg. Nil.

Ind. Cl. : 140A2.

168197

Int. Cl.⁴ : C10 M—125/26 & 171/06.

PROCESS FOR THE PRODUCTION OF A HIGH CARBONATE CONTAINING BORATED PRODUCT.

Applicant : THE LUBRIZOL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092, UNITED STATES OF AMERICA.

Inventors : JOSEPH PHILLIP FISCHER, KIRK EMERSON DAVIS, JACK LEE KARAN & JOHN MELVIN CAHOON.

Application for the Patent No. 840/Del/87, filed on 23rd September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-5.

13 Claims

A process for the production of a high carbonate containing borated product containing at least 5% by weight of carbonate which comprises;

- (a) mixing an overbased component such as herein described and an inert liquid medium such as herein described;
- (b) adding to the mixture of (a) a borating agent such as herein described and reacting the overall mixture at a temperature less than that at which substantial forming occurs;
- (c) removing substantially all the water content within the overall reaction mixture of (b) and
- (d) recovering in any known manner the desired borated product of high carbonate content, substantially all the particles of which are less than 9 microns.

Compl. Specn. 15 Pages.

Drg. Nil.

Ind. Cl. : 108 B₂, 84A.

168198

Int. Cl.⁴ : C21 B 11/00.

IMPROVED PROCESS FOR THE PRODUCTION OF MOLTEN PIG IRON TOP GAS PRODUCED THEREIN BEING USEFUL FOR POWER GENERATION.

Applicant : VOEST-ALPINE AKTIENGESELLSCHAFT, AN AUSTRIAN COMPANY, OF 44 TURMSTRASSE, A-4020 LINZ, AUSTRIA.

Inventors : LUDWIG VON BOGWANDY, WERNER KEPPLINGER, KURT STIFT, GERO PAPST & ROLF HAUKE.

Application for the Patent No. 974/Del/87, filed on 13th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

3 Claims

An improved process for the production of molten pig iron, top gas produced therein being useful for power generation which comprises:

charging lumpy iron ore, solid fuel and fluxes of the kind such as herein described to a direct reduction zone under over pressure whereby said ore is reduced to sponge iron with the simultaneous production of top gas;

feeding the reduced sponge iron product from said direct reduction zone to a meltdown gasification zone;

injecting into said meltdown gasification zone oxygen-containing gases and a charge of carbon carriers whereby under the combustion that occurs said sponge iron is converted to molten pig iron with the generation of reduction gas;

recycling said reduction gas produced in said meltdown gasification zone as reductant to said direct reduction zone;

draining off from said meltdown gasification zone the molten pig iron produced therein; and

the top gas being produced by reduction in said direct reduction zone,

characterised in that said charge of carbon carriers injected into said meltdown gasification zone comprises a coal charge with 50 to 70% C_{fix} portion, and a charge of 20 to 35% liquid or gaseous hydrocarbons, balance being ashes.

Compl. Specn. 23 Pages.

Drg. 1 Sheet.

Ind. Cl. : 40B.

168199

Int. Cl.⁴ : B01J 23/50.

A PROCESS FOR PREPARING A SUPPORTED SILVER CATALYST SUITABLE FOR THE OXIDATION OF ETHYLENE TO ETHYLENE OXIDE.

Applicant : SCIENTIFIC DESIGN COMPANY, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 49 INDUSTRIAL AVENUE, LITTLE FERRY NEW JERSEY 07643-1901, U.S.A.

Inventor : WILLIAM DAVID ARMSTRONG.

Application for the Patent No. 60/Del/88, filed on 25th January, 1988.

4—G—457 GI/90

Divisional to Application No. 347/Del/85 filed on 23rd April 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

11 Claims

A process for preparing a supported silver catalyst suitable for the oxidation of ethylene to ethylene oxide comprising:

- (a) impregnating a support comprising alumina, silica, silica-alumina or combinations thereof with a hydrocarbon solution of a silver salt of a neo-acid said solution being substantially free of water and said neo-acid;
- (b) separating the impregnated support of (a) from said solution and heating said separated support in the presence of molecular oxygen for a period of time sufficient to produce an active fresh silver catalyst; and
- (c) post-impregnating the activated catalyst of (b) with a solution of a compound of at least one alkali metal selected from the group consisting of Ca, K, and Rb and producing a finished catalyst containing up to about 8×10^{-3} gew of said alkali metal for each kilogram of said finished catalyst.

Compl. Specn. 26 Pages.

Drg. Nil.

Ind. Cl. : 33H.

16/4200

Int. Cl.⁴ : B22D 11/04.

METHOD OF DIRECTLY CASTING MOLTEN METAL TO CONTINUOUS STRIP OF CRYSTALLINE METAL.

Applicant : ALLEGHENY LUDLUM STEEL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF PENNSYLVANIA, OF THE UNITED STATES OF AMERICA, OF 1000 SIX PPG PLACE, PITTSBURGH, PENNSYLVANIA 15222, U.S.A.

Inventors : ROBERT HARVEY JOHNS AND JOHN DANA NAUMAN.

Application for the Patent No. 463/Del/88, filed on 25th May, 1988.

Divisional to Application No. 697/Del/85 filed on 22nd August, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

29 Claims

Method of directly casting molten metal to continuous strip of crystalline metal, comprising:

supplying molten metal to a casting vessel adjacent to a movable casting surface and having edges thereof parallel to the casting surface said casting surface moving generally upwardly past the exit end of the casting vessel feeding molten metal to provide a pool of molten metal having a substantially uniform flow and a free upper surface

characterised in that said molten metal is fed at an angle of from about 0° to 135° as measured between the free upper surface of said molten metal and the casting surface at the exit end of the vessel and the strip is cast at a speed of 20 to 500 ft per minute, so that said molten metal flows onto the moving casting surface with a substantially uniform flow across the width of the molten metal and the surface tension of the flowing metal forms all the surfaces of the strip to be cast, the surface tension of the free surface of the molten metal pool forms the tension of the free surface of the molten metal pool forms the top of the cast strip, the surface tension of the molten metal at the bottom of the pool maintains a meniscus to form the bottom of the cast strip; the surface tension of the molten metal sides forms the edges of the cast strip and being about as wide as the strip being cast;

maintaining the depth of molten metal to maintain a constant surface tension of the molten metal on the top, bottom and sides removing cast strip from the moving casting surface.

Compl. Specn. 29 Pages.

Drgs. 3 Sheets.

CLASS : 34-D.

168201

Int. Cl. : D 01 f 11/00.

CONTINUOUS PROCESS FOR PREPARING POLYESTER DRAW-TEXTURING FEED YARNS.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, U.S.A.

Inventor : CECIL EVERETT REESE.

Application No. 723/Cal/1987 filed on 9th September, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

2 Claims

A continuous process for preparing polyester draw-texturing feed yarns, comprising the steps of first forming a molten polyester by reaction, in the presence of known catalysts therefor, (a) of ethylene glycol with terephthalic acid and/or esters thereof, followed by (b) polycondensation in a conventional manner and then melt-spinning the resulting molten polyester into filaments and withdrawing then at a speed of about 3,000 to 4,000 mpm to provide partially oriented yarns of low crystallinity, wherein the polyester is modified by introducing into the polymer, at the stage of polycondensation as a solution in ethylene glycol, tetraethyl silicate in an amount which is substantially equal to at least $19-4V$, where V is the withdrawal speed (in mpm) of the filaments.

Compl. Specn. 27 Pages.

Drg. 1 Sheet.

CLASS : 139B

168202

Int. Cl. : C 30 b 35/00.

A METHOD & APPARATUS FOR GROWING SILICON DENDRITIC WEB CRYSTALS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : (1) JAMES PAUL MCHUGH, (2) RAYMOND GEORGE SEIDENSTICKER, (3) CHARLES STUART DUNCAN.

Application No. 872/Cal/1987 filed on 6th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A method of growing silicon dendritic web crystals which comprises charging a crucible with polycrystalline silicon; melting the silicon; positioning a radiation shield with a slot therein a spaced distance above the silicon melt to provide a heat flow balance between the melt and dendritic web grown through said slot; and controlling the temperature gradients at the boundaries of the dendritic web by enlarged end regions and controlling the intrinsic temperature gradients in the melt such that the melt temperature profile is substantially flat over the region of the melt from which the web is grown, by providing additional openings in the shield, such openings being spaced from the enlarged end regions of said slot such that as the web is pulled through the slot in the radiation shield the web achieves a width which remains substantially constant over the length of web being pulled.

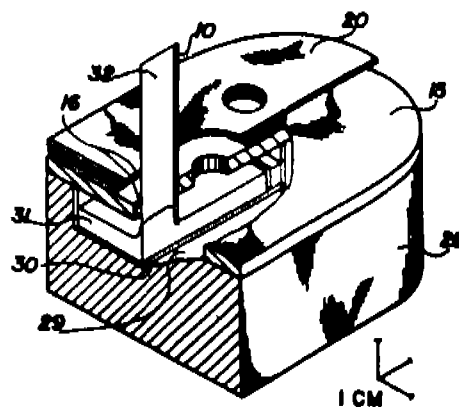


Fig. 2

Compl. Specn. 14 Pages.

Drgs. 4 Sheets.

CLASS : 19-E.

168203

Int. Cl. : F 16 b 13/00.

STRADDLING OR BUCKLING PLUG.

Applicant : TOX-DUBEL-WERK RICHARD W. HIECK-HAUSEN GMBH & CO KG., OF D-7762 BODMAN-LUDWIGSHAFEN, WEST GERMANY.

Inventors : JOSEF RIEDEL.

Application No. 885/Cal/1987 filed on 11th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

Straddling or buckling plug of plastic comprising a solid plug foot with axial passage hole for self-cutting of a thread, a closed plug neck and an expandable plug shank which is disposed between the plug

foot and plug neck and which comprises a sleeve provided with longitudinal slits and having integrally formed outwardly extending support ribs, characterized in that the shank sleeve is constructed as thinwalled rupturable jacket (34), that the encircling support ribs are formed as helices (40) which form the expansion elements and on insertion into the drill hole are held in their position by the thin jacket (34).

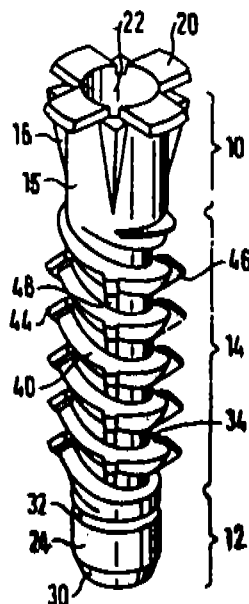


Fig. 2b

Compl. Specn. 9 Pages.

Drgs. 3 Sheets.

CLASS : 128-B.

168204

Int. Cl. : A 61 f 5/00, 5/01, 5/02.

NEW SURGICAL MATERIALS AND DEVICES.

Applicant : MATERIALS CONSULTANTSO OY, OF REIKON-KATU 7C 7 SF-33730 TAMPERE, FINLAND.

Inventors : (1) PERTTI TORMALA, (2) PENTTI ROKKANEN, (3) SEPPÖ VAINIOPAA, (4) JUHA LAIHO, (5) VELIPEKKA HEPOEN, (6) TIMO POHJONEN.

Application No. 15/Cal/1988 filed on 6th January, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

Surgical materials and devices, which have been manufactured of resorbable polymer, copolymer or polymer mixture and can be used as bone fracture, osteotomy, arthrodesis or joint damage fixation materials or their components and as bone tissue reconstruction—an augmentation materials or their components, characterised in that the mentioned materials and devices or their components contain at least partially fibrillated structural units such as herein described having shear strength value of at least 200 MPa and shear modulus value of at least 4 GPa.

Compl. Specn. 27 Pages.

Drgs. 8 Sheets.

CLASS : 36-A.

168205

Int. Cl. : F 04 d 29/00.

IMPELLER OF A CENTRIFUGAL COMPRESSOR.

Applicant : PROIZVODSTVENNOE OBIEDINENIE "NEVSKY ZAVOD" IMENI V.I. LENINA, OF LENINGRAD, PROSPEKT OBUKHOVSKOI OBORONY, 51, USSR.

Inventors : (1) GENNADY FEDOROVICH FELIKANOV, (2) KHANAFI IBRAGIMOVICH MURATOV, (3) VALENTIN ALEX-EEVICH RYABOV, (4) KIR BORISOVICH SARANTSEV, (5) VALENTIN GENNADIEVICH SOLOVIEV.

Application No. 76/Cal/1988, filed on 29th January, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

An impeller of the centrifugal compressor, comprising a supporting disk with blades mounted thereon, their leading edges being disposed in a plane perpendicular to the impeller axis and their trailing edges being disposed on a cylindrical surface with its axis aligned with that of the impeller, the working surface of each blade being formed by helical movement, along and around the impeller axis, of a generatrix with its initial portion lying on the impeller axis and at least part thereof being a segment of a lemniscate, one end of the segment facing the impeller axis being the nodal point of the lemniscate, and the other portion of the generatrix, provided the lemniscate segment constitutes only part of it, representing a segment of a straight line, one end of which is conjugate to the segment of the lemniscate in said nodal point thereof and the other end of the segment of the lemniscate is the origin of the generatrix.

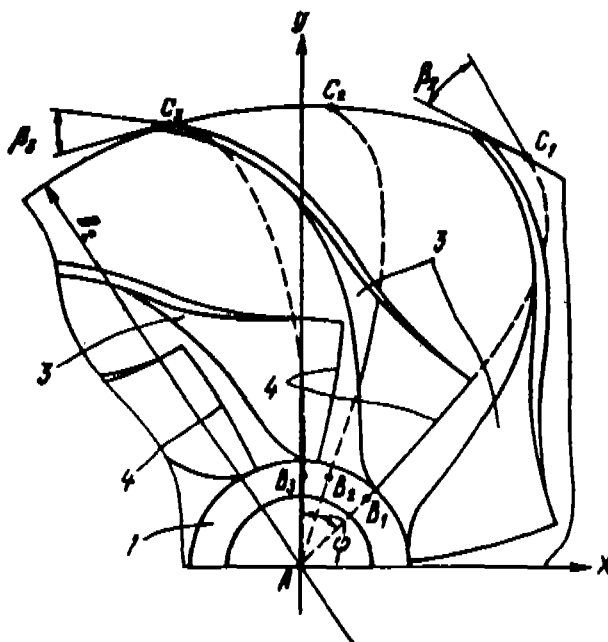


Fig. 2

Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

CLASS : 127-F, 129-E, F, G.
Int. Cl. : B 23 f 1/00, 9/02, 21/00.

168206

METHOD FOR PRODUCING RING GEARS FOR HEAVY DUTY DRIVE AXLES.

Applicant : EATON CORPORATION, AT 1111 SUPERIOR AVE., CLEVELAND, OHIO 44114, UNITED STATES OF AMERICA.

Inventors : (1) GEORGE WINFIELD VOLLMER, (2) ALVIN MORTON SABROFF.

Application No. 109/Cal/1988 filed on 8th February, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

6 Claims

A method for producing ring gears (14) for heavy-duty drive axle ring gear/pinion gear gear-sets, said method comprising the steps of :

providing a near net ring gear forging (106), the tooth flank and tooth root surfaces of said near net ring gear forging having sufficient excess material as herein described for subsequent removing by grinding;

then finish machining (90) said ring gear near net forging surfaces other than the gear teeth root and flank surfaces;

then subjecting said machined workpiece to a carburizing heat treatment (92);

then grinding (94) said gear teeth root and flank surfaces to the final finish profiles thereof.

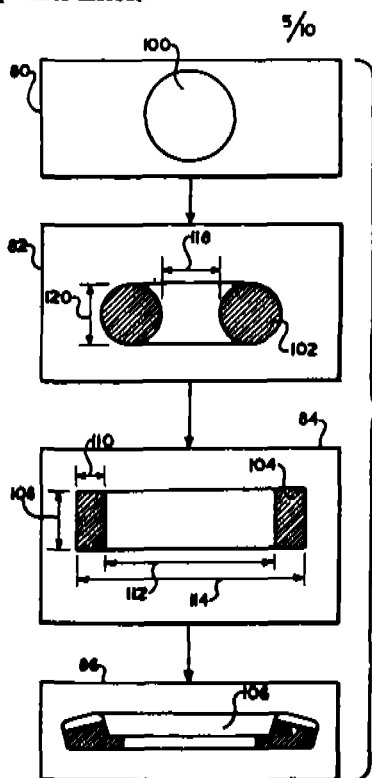


Fig. 4

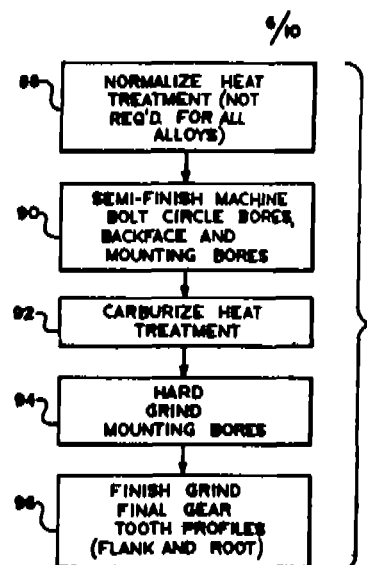


Fig. 4A

Compl. Specn. 28 Pages.

Drgs. 10 Sheets.

CLASS : 181.
Int. Cl. : F 16 j 15/00.

168207

ANNULAR SEAL ASSEMBLY FOR SEALING AN ANNULAR SPACE.

Applicant : EATON CORPORATION, AT THE EATON CENTER, CLEVELAND, OHIO 44114, UNITED STATES OF AMERICA.

Inventor : PETER STANHOPE WINCKLER.

Application No. 231/Cal/1988 filed on 18th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

17 Claims

An annular seal assembly (22 or 50) for sealing an annular space (24a) between an outer cylindrical surface (16b) of a shaft (16) extending through an opening (14) in a housing (10), the shaft mounted for rotation about its axis and relative to the housing; the seal assembly comprising :

an elastomeric member (34 or 60) having an inner cylindrical surface (34b) and a radially outwardly extending flange portion (34c) defining an axially facing sealing lip (34d), the inner cylindrical surface adapted for static sealing relation with the outer cylindrical surface (16b) of the shaft (16) and rotation therewith;

a fastening device (38 or 62) engaging a portion of the elastomeric member (34 or 60) and rotatably therewith for preventing loss of the static sealing relation due to rotation of the elastomeric member (34 or 60) by the shaft (16); the assembly characterized by :

an annular support means (32 or 56, 58) adapted to be fixed to the housing (10) in static sealing relation with the opening (14), the support member including a cylindrical portion (32b or 58a);

a sealing flange (36 or 44 or 58b) extending radially from and in static sealing relation with the cylindrical portion (32b or 58a) of the support means (32 or 58, 56), the flange defining a substantially axially facing surface (36a or 44a or 58c) in dynamic sealing relation with the sealing lip (34d or 60a) of the elastomeric member (34 or 60); and spacer means (40, 42 or 62) disposed in the cylindrical portion (32b or 58a) of the support means (32 or 56, 58) and receiving a radially outer portion (38a) of the fastening device (38 or 62) for axially positioning the sealing lip (34d or 60a) of the elastomeric member (34 or 60) relative to the axially facing surface (36a or 44a or 58c) of the sealing flange (36 or 44 or 58b).

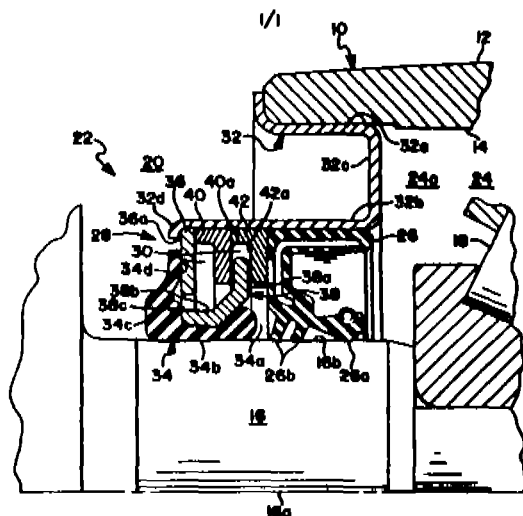


Fig. 1

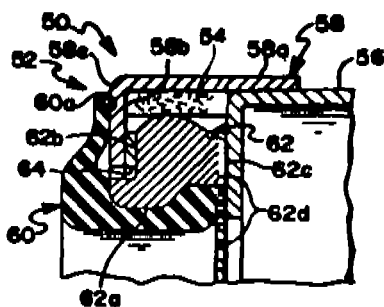


Fig. 1

Compl. Specn. 14 Pages.

Drg. 1 Sheet.

CLA 'S : 39-C; 139-D, E.
Int. Cl. : C 01 b 3/00, C 01 b 21/04, C 01 c 1/04.

168208

A PROCESS FOR PRODUCING A GAS MIXTURE CONSISTING OF HYDROGEN AND NITROGEN FOR THE SYNTHESIS OF AMMONIA.

Applicant : (1) METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, WEST GERMANY; (2) AMH-CHEMIE GMBH, OF POSTFACH 1268, D-2212 BRUNSBUTTEL, WEST GERMANY.

Inventors : (1) CHRISTOPHER HIGMAN, (2) GERHARD GRUNFELDER, (3) WERNER SOYEZ.

Application No. 254/Cal/1988 filed on 28th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A process of producing a gas mixture consisting of hydrogen and nitrogen for the synthesis of ammonia, wherein a gas mixture which is rich mainly in hydrogen and carbon monoxide and contain methane as an impurity is subjected to a catalytic shift conversion under a pressure between 10 and 60 bars and at temperatures between 350 and 550°C to produce a shift-converted gas mixture which contains CO₂ and has a CO content between about 2 and 8% by volume, after a removal of the CO₂ from said shift-converted gas mixture, the latter is pre-cooled to temperatures not below -50°C and the pre-cooled high-H₂ gas mixture is cooled further in a heat exchange zone to temperatures not below -160°C, characterized in that the temperature of the high-H₂ gas mixture is decreased in the heat exchange zone below the dew point temperature of the methane, a high-methane condensate is removed from the gas mixture is scrubbed with liquid nitrogen to remove carbon monoxide as a condensate, at least part of the residual CO₂ condensate is evaporated in the heat exchange zone and is fed to the shift converter, and a gas mixture which contains H₂ and N₂ is withdrawn from the scrubber and is also passed through the heat exchange zone.

Compl. Specn. 14 Pages.

Drg. 1 Sheet.

CLASS : 25-A, B, C, D.
Int. Cl. : E 04 d 3/00.

168209

UNSUPPORTED ENDLESS STIFFENER FOR SLAB AND PLATE AND THE LIKE PURPOSES.

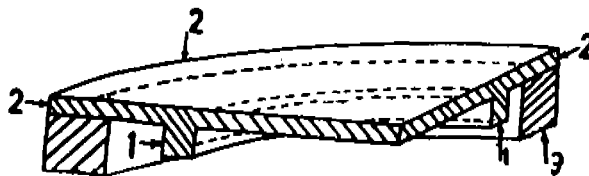
Applicant & Inventor : DR. RAM NARAIN SINGH, DEPARTMENT OF CIVIL ENGINEERING BIHAR INSTITUTE OF TECHNOLOGY, SINDRI, DHANBAD, PIN 828 123, INDIA.

Application No. 271/Cal/1988, filed on 30th March, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

16 Claims

A novel structural element comprising a base structural member and one or more endless unsupported stiffeners depending therefrom.



Compl. Specn. 18 Pages.

Drgs. 3 Sheets.

CLASS : 71-B.
Int. Cl. : E 21 c 25/00.

168210

DRIVING ARRANGEMENT FOR THE CUTTING HEADS OR ROLLS OF AN ADVANCING OR MINING MACHINE.

Applicant: VOEST-ALPINE AKTIENGESellschaft OF
A-4020 LINZ, TURMSTRASSE 44, AUSTRIA

Inventors: (1) ALFRED ZITZ, (2) PETER KOGLER.

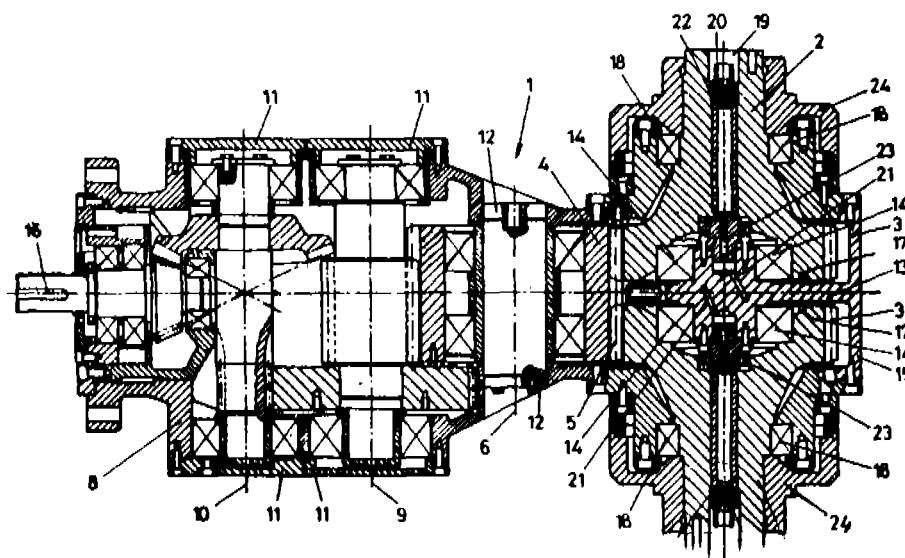
Application No. 479/Cal/1988 filed on 13th June, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office, Calcutta.

5 Claims

Driving arrangement for the cutting heads or rolls of an advancing
or mining machine, said cutting heads or rolls being rotatably

supported on a cantilever arm at both sides thereof, noting that the
driving shaft is rotatably supported within the interior of the cantilever
arm, characterized in that the output shafts (2) are supported
in mutually coaxial relation at the free end of the cantilever arm (1)
and carry at their respective mutually facing inner ends a gear wheel
being in meshing engagement within the interior of the cantilever
arm (1) with a common paraxial intermediate gear wheel (4), in that
the mutually facing inner ends of the output shafts (2) are supported
on a common bearing support (13) being stationary relative to the
cantilever arm (1), in that the output shafts (2) comprise a central
cavity (19) extending in axial relation and in that the output shafts (2)
are non-rotatably connected with the heads or rolls.



Compl. Specn. 11 Pages.

Drg. 1 Sheet.

Name Index of Applicants for Patents for the month of October,
1990 (Nos. 834/Cal/90 to 918/Cal/90, 255/Bom/90 to 280/Bom/90,
770/Mas/90 to 873/Mas/90 and 953/Del/90 to 1086/Del/90).

Name & Appln. No.

—C—

Coffey, M.—858/Cal/90, 859/Cal/90.

—D—

Das, N. Smt. (Dr.)—849/Cal/90.

Degussa Aktiengesellschaft.—911/Cal/90.

Deutsche Thomson-Brandt GmbH.—840/Cal/90, 841/Cal/90.

Dey, S. (Sri).—849/Cal/90.

Dunlop India Ltd.—896/Cal/90.

—E—

E. I. Du Pont De Nemours & Co.—836/Cal/90, 842/Cal/90, 843/Cal/
90, 844/Cal/90, 852/Cal/90, 853/Cal/90, 854/Cal/90, 855/Cal/90,
857/Cal/90, 868/Cal/90, 879/Cal/90, 880/Cal/90, 881/Cal/90, 885/
Cal/90, 892/Cal/90, 893/Cal/90, 894/Cal/90, 918/Cal/90.

Engelhard Corporation.—882/Cal/90.

Name & Appth. No.

CALCUTTA

834 to 918

—A—

American Cyanamid Co.—909/Cal/90.

Ariel Industries PLC.—856/Cal/90.

—B—

Babcock & Wilcox Co. The.—834/Cal/90, 874/Cal/90, 883/Cal/90,
898/Cal/90.

Barold Technology, Inc.—886/Cal/90.

Basic, J. N.—884/Cal/90.

Bhattacharya B. C. Sri (Dr.).—849/Cal/90.

Bhattacharya P. (Sri).—849/Cal/90.

Billiot, H. M.—861/Cal/90.

Name & Appln. No.	Name & Appln. No.
—F—	—Q—
Feher, S.—888/Cal/90.	Quebec Metal Powders Ltd.—847/Cal/90.
—G—	—R—
Genencor International, Inc.—906/Cal/90.	Rayman, G. A.—873/Cal/90.
General Electric Co.—845/Cal/90, 877/Cal/90.	—S—
Great Lakes Chemical Corporation.—851/Cal/90.	Saha, G.—901/Cal/90.
—H—	Samsung Electron Devices Co. Ltd.—848/Cal/90, 917/Cal/90.
Hitachi Construction Manufacturing Co. Ltd.—916/Cal/90.	Satake Engineering Co. Ltd.—903/Cal/90.
Hitachi Ltd.—915/Cal/90.	Siemens Aktiengesellschaft.—900/Cal/90.
Hodogaya Chemical Co. Ltd.—919/Cal/90.	Slack, N. 858/Cal/90, 859/Cal/90.
Hoechst Aktiengesellschaft.—895/Cal/90.	Staedtler & Uhl.—837/Cal/90.
—I—	Surgikos, Inc.—878/Cal/90.
Inutran Ltd.—872/Cal/90.	—T—
Indian Jute Industries Research Association.—871/Cal/90.	Tata Tea Ltd.—889/Cal/90, 890/Cal/90.
International Paper Co.—875/Cal/90.	Teijin Seiki Co. Ltd.—870/Cal/90.
—K—	Thomson Consumer Electronics, Inc.—904/Cal/90, 905/Cal/90.
Kar, A.—835/Cal/90.	—U—
Kasei Optonix Ltd.—891/Cal/90.	Uebel Engines Pty. Ltd.—838/Cal/90, 839/Cal/90.
Keystone International Holdings Corporation.—846/Cal/90.	—W—
Kortec Ag.—912/Cal/90.	Westinghouse Electric Corporation.—860/Cal/90, 862/Cal/90, 863/Cal/90, 866/Cal/90, 867/Cal/90, 897/Cal/90.
—L—	—Z—
Lanxide Technology Co. L. P.—876/Cal/90.	Zip Heaters (Australia) Pty. Ltd.—869/Cal/90.
Lenzing Aktiengesellschaft.—887/Cal/90, 913/Cal/90.	
—M—	
Mcneil, Ppc, Inc.—850/Cal/90, 907/Cal/90, 908/Cal/90.	BOMBAY
Metallgesellschaft Aktiengesellschaft.—902/Cal/90.	(255—280)
Mieth, H. O. Dipl. Ins.—914/Cal/90.	—A—
Mukherjee, D. (Sri).—865/Cal/90.	Ahmedabad Textile Industry's Research Association.—255/Bom/90, 256/Bom/90, 257/Bom/90.
—N—	Ajay Windecor Products Pvt. Ltd.—267/Bom/90.
Nitro Nobel AB.—899/Cal/90.	Antron (India) Pvt. Ltd.—277/Bom/90.
Nutri-Sul International, Inc.—910/Cal/90.	—C—
—P—	
PKA Pyrolyse Kraftanlagen GmbH.—864/Cal/90.	Contractor E. N.—266/Bom/90.

Name & Appln. No.

—D—

Dandekar, G.G.—258/Bom/90, 262/Bom/90, 263/Bom/90, 264/Bom/90.

Desai M.N.—273/Bom/90.

—E—

Eerste Nederlandse Fabrick Van Weegwerktuigen Jan—261/Bom/90.

—H—

Habibulla, A.H.—269/Bom/90.

Hindustan Lever Ltd.—259/Bom/90, 260/Bom/90, 268/Bom/90, 271/Bom/90.

Hoechst India Ltd.—276/Bom/90.

—L—

Larsen & Toubro Ltd.—272/Bom/90.

—M—

Mishra, S. (Dr.)—278/Bom/90.

Mitsubishi Denki Kabushiki Kaisha.—279/Bom/90.

—P—

Praj Counseltech Pvt. Ltd.—275/Bom/90.

—R—

Rangnekar, B.G.—280/Bom/90.

Rao, K.R.K.—278/Bom/90.

Rohra, M.B.—265/Bom/90.

—S—

Saraf, J.K.—274/Bom/90.

Shah, S.D.—270/Bom/90.

MADRAS

(770-875)

—A—

Amco Batteries Ltd.—820/Mas/90, 821/Mas/90, 843/Mas/90.

Anantha Krishnan, A.—868/Mas/90.

Ases Brown Boveri Ltd.—791/Mas/90, 792/Mas/90.

—B—

BIO-FLO Limited—818/Mas/90.

Bank Taylor Hobson Ltd.—817/Mas/90, 841/Mas/90.

Bharat Heavy Plant & Vessels Ltd.—783/Mas/90.

Bosemount Inc.—871/Mas/90.

Name & Appln. No.

—C—

Caterpillar Inc.—807/Mas/90.

Clulow, M.G.—859/Mas/90.

Chorpade, N.—822/Mas/90.

—D—

Decorax Lizenz Ag.—839/Mas/90.

Deutsche Babcock Borsig Aktiengesellschaft—809/Mas/90.

Devi V.S.—796/Mas/90.

Dow Chemical Co. The—834/Mas/90.

—E—

Egis Gyogyszergyar.—851/Mas/90, 852/Mas/90.

Elkem Technology A/S.—856/Mas/90.

Energia Andina Ltd.—795/Mas/90.

Enimont Augusta S.p.A.—793/Mas/90.

Esmil Water Systems B.V.—855/Mas/90.

—F—

FMC Corporation—773/Mas/90, 774/Mas/90, 775/Mas/90.

FMIT Inc.—776/Mas/90, 813/Mas/90.

Forns Plastics Ltd.—819/Mas/90.

Fosco Pty. Ltd.—860/Mas/90.

—H—

Hackforth GMBH & Co.—847/Mas/90.

Henkel Komanditgesellschaft Auf Aktien—782/Mas/90.

Hitchiner Manufacturing Co. Inc.—837/Mas/90.

Hoechst Aktiengesellschaft—804/Mas/90, 867/Mas/90.

Hoogovens Group B.V.—802/Mas/90.

—I—

Indian Institute of Technology.—781/Mas/90, 823/Mas/90.

Industor AB—772/Mas/90.

Inventio As—848/Mas/90.

—J—

John Chane Inc.—788/Mas/90.

Josh, R.C.—861/Mas/90.

—K—

Kommunedata I/S.—812/Mas/90.

Name & Appln. No.

—L—

Lacrex SA.—866/Maa/90.

Lonza Limited.—864/Maa/90.

Lucas-TVS Ltd.—797/Maa/90, 842/Maa/90.

—M—

Mac ADAM D.H.—865/Maa/90.

Madhuri, G.—845/Maa/90.

Magnet Marelli Electrical Ltd.—835/Maa/90, 836/Maa/90.

Manitowoc Co. Inc. The.—801/Maa/90.

Mars Incorporated.—808/Maa/90.

Maslamani, M.—806/Maa/90.

Mafina S.A.—785/Maa/90.

Miat S.P.A.—850/Maa/90.

Minnesota Mining & Manufacturing Co.—803/Maa/90, 838/Maa/90, 863/Maa/90.

Mitsubishi Denki Kabushiki Kaisha.—862/Maa/90.

Mitsubishi Jukogyo Kabushiki Kaisha.—816/Maa/90.

Moosa, K.M.—824/Maa/90, 825/Maa/90, 826/Maa/90, 827/Maa/90, 828/Maa/90, 829/Maa/90, 830/Maa/90, 831/Maa/90, 832/Maa/90, 833/Maa/90.

—N—

Netarajan, G.V.—779/Maa/90.

—O—

ONO.—815/Maa/90.

Organic Chemical Development Corporation.—777/Maa/90.

—P—

Palitex Project Co. GmbH.—798/Maa/90, 799/Maa/90.

Phobos N.V.—805/Maa/90.

—R—

Rao, P.R.L.—846/Maa/90.

Rhône Poulenc Sante.—858/Maa/90.

—S—

Saea Getters S.P.A.—787/Maa/90.

Separation Dynamics Inc.—789/Maa/90.

Shell Internationale Research Maatschappij B.V.—811/Maa/90.

Shet, G.V.—780/Maa/90.

Singh, P.C. (Dr.)—790/Maa/90.

Societe des Produits Nestle S.A.—800/Maa/90.

Name & Appln. No.

S—Contd.

Sollac.—840/Maa/90.

Sravankumar, N.—778/Maa/90.

Stamcarbon B.V.—794/Maa/90, 872/Maa/90, 873/Maa/90, 874/Maa/90.

—T—

TLV Co. Ltd.—814/Maa/90.

Thirupathy, V.V.T.—857/Maa/90.

Transaction Technology Inc.—875/Maa/90.

—U—

UNIFI Communications Corporation.—853/Maa/90.

Union Carbide Chemicals & Plastics Co. Inc.—869/Maa/90, 870/Maa/90.

Union Carbide Corporation.—854/Maa/90.

Union Oil Co. of California.—784/Maa/90.

—V—

Veit Transpo GmbH.—786/Maa/90.

Venkataraman, G (Dr.)—844/Maa/90.

Vijayan, T.A.—770/Maa/90, 771/Maa/90.

Vinod Kumar, C.—810/Maa/90.

—W—

Western Mining Corporation Ltd.—860/Maa/90.

Winnett, D.F.—859/Maa/90.

—Z—

Zachariah, C.P. (Dr.)—849/Maa/90.

DELHI

(953—1086)

—A—

Aerospatiale Societe Nationale Industrielle.—1063/Del/90.

Aeternum S.R.L.—954/Del/90, 955/Del/90.

Agrolinz Agrarche Mikalien gesellschaft m.n.H.—1044/Del/90.

Aktiebolaget Bofors—1011/Del/90, 1012/Del/90.

Alcan International Ltd.—1065/Del/90.

Allen-Bradley Co. Inc.—1085/Del/90.

All India Institute of Medical Sciences—1034/Del/90.

Name & Appln. No.	Name & Appln. No.
—B—	—I—
Bhutani, G.—980/Del/90.	Imperial Chemical Industries PLC—988/Del/90, 1033/Del/90, 1041/Del/90, 1054/Del/90, 1059/Del/90, 1073/Del/90.
Brahmarakshas, M.R.—966/Del/90, 967/Del/90.	Industrial Control Systems B.v.—994/Del/90.
—C—	Ingersoll-Rand Co.—1086/Del/90.
Carrier Corporation—953/Del/90, 1039/Del/90, 1061/Del/90.	International Business Machines Corporation—998//Del/90, 999/Del/90, 1000/Del/90, 1001/Del/90, 1002/Del/90, 1003/Del/90.
Centre Stephanois De Recherches.—1009/Del/90.	—J—
Co. Ge It S.R.L. Costruzioni Generali Italiane—959/Del/90.	Jain, S.S.—1004/Del/90, 1005/Del/90, 1006/Del/90.
Colgate-Palmolive Co.—1066/Del/90.	Jhawar, M.M.—1074/Del/90.
—C—	Johnson Matthey Public Ltd. Co.—1038/Del/90.
Conseil Etude Et Developpement an Industrialisation Du Batinent-CEDIBAT—1060/Del/90.	—K—
Cooper Power Systems, Inc.—992//Del/90.	Kenegafuchi Kagaku Kogyo Kabushiki Kaisha.—1040/Del/90.
Council of Scientific & Industrial Research.—961/Del/90, 1014/Del/90, 1015/Del/90, 1016/Del/90, 1017/Del/90, 1018/Del/90, 1019/Del/90, 1020/Del/90, 1021/Del/90, 1022/Del/90, 1023/Del/90, 1024/Del/90, 1025/Del/90, 1026/Del/90, 1027/Del/90, 1028/Del/90, 1029/Del/90, 1070/Del/90, 1071/Del/90, 1076/Del/90, 1077/Del/90, 1078/Del/90, 1079/Del/90, 1080/Del/90, 1081/Del/90, 1082/Del/90.	Khetrapal, J.—1057/Del/90.
—D—	Kumar, V.—972/Del/90.
Dr. Beck & Co. Aktiengesellschaft.—983/Del/90.	—L—
—E—	Libbey-Owens-Ford Co.—1031/Del/90.
EL. PO. S.r.l.—1036/Del/90.	—M—
E.R. Squibb & Sons, Inc.—1069/Del/90.	Mitsui Petrochemical Industries, Ltd.—978/Del/90, 1010//Del/90.
Emhart Industries, Inc.—986/Del/90.	Mobil Solar Energy Corporation.—1007/Del/90.
Ethyl Corporation—1043/Del/90.	Motorola, Inc.—979//Del/90, 981//Del/90, 1086/Del/90.
Exxon Chemical Patents, Inc. 973/Del/90, 977/Del/90, 1008/Del/90.	—N—
—F—	National Council for Cement & Building Material—1033/Del/90, 1052/Del/90, 1055/Del/90.
Faro Fabbrica Apparecchiature Razionali Odontoiatriche S.P.A.—971/Del/90.	National Research Development Corporation.—1067/Del/90.
Fosroc International Ltd.—1058/Del/90.	New Logic International Inc.—995/Del/90.
—G—	Novo Industri A/S.—991/Del/90.
GEC Alsthom.—956/Del/90.	—P—
Gec. Plessey Telecommunications Ltd.—969/Del/90.	Parsons Chain Co. Ltd.—987/Del/90.
Garces, F.S.—1042/Del/90.	Photon Energy, Inc.—962/Del/90.
Gill, A.S.—1075/Del/90.	Polysar Ltd.—974/Del/90.
Glaverbel—968/Del/90.	Procter & Gamble Co. The—991/Del/90, 1013/Del/90.
Governors of the University of Alberta, The—970/Del/90.	—R—
—H—	R.V. Engineers & Fabricators—963/Del/90, 964/Del/90, 965/Del/90.
Hydrocarb Corporation.—1046/Del/90.	Raghava, K.G.—990/Del/90.
	Richardson-Vicks, Inc.—996/Del/90.
	Ricker Laboratories, Inc.—1053/Del/90.
	Rohm & Hass Co.—960/Del/90, 1032/Del/90.

Name & Appln. No.

REGISTRATION OF DESIGNS

—S—

STC PLC—975/Del/90, 984/Del/90.

Sanford Redmond Inc.—997/Del/90.

Secretary of State for Defence in Her Britannic Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, The—1084/Del/90.

Shell Internationale Research Maatschappij B.V.—982/Del/90, 1037/Del/90.

Smiths Industries Public Ltd. Co.—985/Del/90.

Societe Nationale D' Etude Et De Construction De Moteurs D' Aviation "S.N.E.C.M.A"—1064/Del/90.

Standard Oil Co. The—993/Del/90.

Steel Authority of India Ltd.—1033/Del/90.

—T—

Tata Energy Research Institute, The—1056/Del/90.

Trell, A.E.—1062/Del/90.

—U—

Union Carbide Industrial Gases Technology Corporation.—1072/Del/90.

—V—

Vijayaraghavan, S.—1045/Del/90.

—W—

Warner-Lambert Co.—976/Del/90.

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration in the entry.

Class 1. No. 162331. International Business Machines Corporation, United States of America of Armonk, New York 10504, U.S.A. "Shield for electromagnetic Radiation". July 16, 1990.

" No. 162332. International Business Machines Corporation, United States of America of Armonk, New York 10504, U.S.A. "Electromagnetic Shield". July 16, 1990.

Class 3. No. 162325. International Business Machines Corporation, United States of America of Armonk, New York 10504, U.S.A. "Slimline Tape Drive Bezel". July 16, 1990.

" No. 162326 to 162328 International Business Machines Corporation, United States of America of Armonk, New York 10504, U.S.A. "Floppy Disk Drive Bezel". July 16, 1990.

" No. 162329 International Business Machines Corporation, United States of America of Armonk, New York 10504, U.S.A. "Optical Disk Drive Bezel". July 16, 1990.

" No. 162330 International Business Machines Corporation, United States of America of Armonk, New York 10504, U.S.A. "Tape Drive Bezel". July 16, 1990.

" No. 162339 Ortho-Tain, a corporation of Puerto Rico of P.O. Box 4296, Bayamon, Puerto Rico 00620. "Orthodontic Positioner". July 17, 1990.

R. A. ACHARYA,
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